

FILE 'REGISTRY' ENTERED AT 13:41:40 ON 01 MAR 2010

EXP TRIACETYLRIDINE/CN
EXP TRIACETYL URIDINE/CN
EXP 2,3,5-TRIACETYL URIDINE/CN
EXP ETHOXCARBONYLRIDINE\
EXP ETHOXCARBONYLRIDINE/CN
EXP PERACETYLRIDINE/CN
EXP PERACETYL URIDINE/CN

FILE 'HCAPLUS' ENTERED AT 13:43:26 ON 01 MAR 2010

L1 56 S TRIACETYLRIDINE OR (TRIACETYL URIDINE) OR TRIACETYLCYTIDINE
L2 56 S TRIACETYLRIDINE OR (TRIACETYL URIDINE) OR TRIACETYLCYTIDINE
L3 35 S L2 AND (PY<1993 OR AY<1993 OR PRY<1993)

FILE 'REGISTRY' ENTERED AT 14:39:14 ON 01 MAR 2010

L4 1 S 4105-38-8/RN
L5 1 S 5040-18-6/RN

FILE 'HCAPLUS' ENTERED AT 14:39:49 ON 01 MAR 2010

L6 52 S L4/THU
L7 52 S L4/THU OR L5/THU
L8 9 S L7 AND (PY<1993 OR AY<1993 OR PRY<1993)

=> file registry
COST IN U.S. DOLLARS
FULL ESTIMATED COST

SINCE FILE	TOTAL
ENTRY	SESSION
0.22	0.22

FILE 'REGISTRY' ENTERED AT 13:41:40 ON 01 MAR 2010
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Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES: 28 FEB 2010 HIGHEST RN 1207513-60-7
DICTIONARY FILE UPDATES: 28 FEB 2010 HIGHEST RN 1207513-60-7

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH June 26, 2009.

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=> exp triacetyluridine/cn

E1	1	TRACETYLTRIBENZYLHEXAAZASOWURTZITANE/CN
E2	1	TRACETYLUMBROSIN/CN
E3	0 -->	TRACETYLURIDINE/CN
E4	1	TRACETYLUSKUDARAMINE/CN
E5	1	TRACETYLZYGADENINE/CN
E6	1	TRACID ALIZARINE GREEN G/CN
E7	1	TRACID AMARANTH A/CN
E8	1	TRACID AMIDONAPHTHOL RED 6B/CN
E9	1	TRACID AMIDONAPHTHOL RED G/CN
E10	1	TRACID AZOEOSINE E/CN
E11	1	TRACID BENGAL ROSE B/CN
E12	1	TRACID BLUE AE/CN

=> exp triacetyl uridine/cn

E1	1	TRACETYL THIOZAMIN/CN
E2	1	TRACETYL TRICIN/CN
E3	0 -->	TRACETYL URIDINE/CN
E4	1	TRACETYL-B-DAUNOSAMINE/CN
E5	1	TRACETYL-Ψ-LYCORINE/CN
E6	1	TRACETYL-4-AMINOPHENOL/CN
E7	1	TRACETYL-4-EPISHIKIMIC ACID METHYL ESTER/CN
E8	1	TRACETYL-4-PYRIDOXYL-4, 5, 6, 7-TETRAHYDRO-3H-IMIDAZO(4, 5-C)PYRIDINE/CN
E9	1	TRACETYL-5-FLUOROURIDINE/CN
E10	1	TRACETYL-6-PURINYLBHISTAMINE/CN
E11	1	TRACETYL-CYANURIC ACID/CN
E12	1	TRACETYL-D-GALACTAL/CN

=> exp 2,3,5-triacetyl uridine/cn

E1	1	2,3,5-TRACETOXYBIPHENYL/CN
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E2	1	2,3,5-TRIACETOXYPYRIDINE/CN
E3	0 -->	2,3,5-TRIACETYL URIDINE/CN
E4	1	2,3,5-TRIACETYL-D-RIBOFURANOSYL CHLORIDE/CN
E5	1	2,3,5-TRIAMINO-1,4-NAPHTHOQUINONE/CN
E6	1	2,3,5-TRIAMINO-4,6-DIMETHYLPYRIDINE/CN
E7	1	2,3,5-TRIAMINO-4,6-DIMETHYLPYRIDINE BISMETHANESULFONATE/CN
E8	1	2,3,5-TRIAMINOBENZALDEHYDE/CN
E9	1	2,3,5-TRIAMINOBENZONITRILE/CN
E10	1	2,3,5-TRIAMINOBROMOBENZENE/CN
E11	1	2,3,5-TRIAMINOCHLOROBENZENE/CN
E12	1	2,3,5-TRIAZA-1,4-DIBORAHEPTANE-1,1,4-TRIAMINE, 6-METHYL-2-(1-METHYLETHENYL)-N1,N1,N1',N1',3,5-HEXAKIS(1-METHYLETHYL)-/CN

=> exp 2',3',5'-triacetyl uridine/cn

MISMATCHED QUOTE IN EXPAND TERM

Quotation marks (or apostrophes) must be used in pairs,
one before and one after the expression you are setting
off or masking.

=> exp ethoxcarbonyluridine\

E1	1	ETHOXAZORUTIN/BI
E2	1	ETHOXAZORUTOSIDE/BI
E3	0 -->	ETHOXCARBONYLURIDINE\BI
E4	2	ETHOXENE/BI
E5	1	ETHOXID/BI
E6	453	ETHOXIDE/BI
E7	1	ETHOXIDE BIS/BI
E8	2	ETHOXIDES/BI
E9	1	ETHOXIDINE/BI
E10	1	ETHOXIDO/BI
E11	1	ETHOXIDOL/BI
E12	4	ETHOXIM/BI

=> exp ethoxcarbonyluridine/cn

E1	1	ETHOXAZORUTIN/CN
E2	1	ETHOXAZORUTOSIDE/CN
E3	0 -->	ETHOXCARBONYLURIDINE/CN
E4	1	ETHOXENE/CN
E5	2	ETHOXIDE/CN
E6	1	ETHOXIDE (PHARMACEUTICAL)/CN
E7	1	ETHOXIDE ANION/CN
E8	1	ETHOXIDE ION/CN
E9	1	ETHOXIDE, N,N'-O-PHENYLENEBIS(SALICYLIDENEAMINATO)MANGANESE COMPLEX/CN
E10	1	ETHOXIDE-1,1-D2/CN
E11	1	ETHOXIDINE/CN
E12	1	ETHOXIDOL/CN

=> exp peracetyluridine/cn

E1	1	PERACETYLSHATAVARIN IV/CN
E2	1	PERACETYLTEULAMIOSIDE/CN
E3	0 -->	PERACETYLRIDINE/CN
E4	1	PERACID AC/CN
E5	1	PERACID HYDROLASE/CN
E6	1	PERACIT 4018F/CN
E7	1	PERACIT 4439X1/CN
E8	1	PERACIT 4536K/CN
E9	1	PERACIT 5030A/CN
E10	1	PERACIT 5042/CN
E11	1	PERACIT 5044/CN
E12	1	PERACIT 5046/CN

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=> exp peracetyl uridine/cn
E1          1      PERACETYL RADICAL/CN
E2          1      PERACETYL TIBETICOSIDE A/CN
E3          0 --> PERACETYL URIDINE/CN
E4          1      PERACETYL-D-ARABINOSE/CN
E5          1      PERACETYL-D-GALACTOSE DIETHYL DITHIOACETAL/CN
E6          1      PERACETYL-D-GLUCOSE/CN
E7          1      PERACETYL-D-MALTOHEPTAOSE/CN
E8          1      PERACETYLDARDISIOSIDE A/CN
E9          1      PERACETYLDARDISIOSIDE B/CN
E10         1      PERACETYLATED A-CYCLODEXTRIN/CN
E11         1      PERACETYLATED B-CYCLODEXTRIN/CN
E12         1      PERACETYLATED Γ-CYCLODEXTRIN/CN
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=> file hcaplus
COST IN U.S. DOLLARS                               SINCE FILE      TOTAL
                                                ENTRY      SESSION
FULL ESTIMATED COST                               1.47          1.69
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FILE 'HCAPLUS' ENTERED AT 13:43:26 ON 01 MAR 2010
 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
 PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
 COPYRIGHT (C) 2010 AMERICAN CHEMICAL SOCIETY (ACS)

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FILE COVERS 1907 - 1 Mar 2010 VOL 152 ISS 10
 FILE LAST UPDATED: 28 Feb 2010 (20100228/ED)
 REVISED CLASS FIELDS (/NCL) LAST RELOADED: Dec 2009
 USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Dec 2009

HCAplus now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2009.

CAS Information Use Policies apply and are available at:

<http://www.cas.org/legal/infopolicy.html>

This file contains CAS Registry Numbers for easy and accurate substance identification.

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=> s triacetyluridine or (triacetyl uridine) or triacetylcytidine or (triacetyl
cytidine) or ethoxycarbonyluridine or (ethoxyarbonyl uridine)
    42 TRIACETYLRIDINE
    3450 TRIACETYL
    30137 URIDINE
    0 TRIACETYL URIDINE
      (TRACETYL(W)URIDINE)
    13 TRIACETYLCYTIDINE
    3450 TRIACETYL
    14671 CYTIDINE
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1 TRIACETYL CYTIDINE
 (TRIACETYL(W)CYTIDINE)
 3 ETHOXYCARBONYLURIDINE
 0 ETHOXYARBONYL
 30137 URIDINE
 0 ETHOXYARBONYL URIDINE
 (ETHOXYARBONYL(W)URIDINE)
 L1 56 TRIACETYLURIDINE OR (TRIACETYL URIDINE) OR TRIACETYLCYTIDINE OR
 (TRIACETYL CYTIDINE) OR ETHOXYCARBONYLURIDINE OR (ETHOXYARBONYL
 URIDINE)

=> s triacetyluridine or (triacetyl uridine) or triacetylcytidine or (triacetyl
 cytidine) or ethoxycarbonyluridine or (ethoxycarbonyl uridine)

42 TRIACETYLRIDINE
 3450 TRIACETYL
 30137 URIDINE
 0 TRIACETYL URIDINE
 (TRIACETYL(W)URIDINE)
 13 TRIACETYLCYTIDINE
 3450 TRIACETYL
 14671 CYTIDINE
 1 TRIACETYL CYTIDINE
 (TRIACETYL(W)CYTIDINE)
 3 ETHOXYCARBONYLURIDINE
 13146 ETHOXYCARBONYL
 30137 URIDINE
 0 ETHOXYCARBONYL URIDINE
 (ETHOXYCARBONYL(W)URIDINE)
 L2 56 TRIACETYLRIDINE OR (TRIACETYL URIDINE) OR TRIACETYLCYTIDINE OR
 (TRIACETYL CYTIDINE) OR ETHOXYCARBONYLURIDINE OR (ETHOXYCARBONYL
 URIDINE)

=> s 12 and (PY<1993 or AY<1993 or PRY<1993)

14944658 PY<1993
 2636069 AY<1993
 2076698 PRY<1993
 L3 35 L2 AND (PY<1993 OR AY<1993 OR PRY<1993)

=> d 13 1-35 ti abs bib

L3 ANSWER 1 OF 35 HCAPLUS COPYRIGHT 2010 ACS on STN
 TI Compositions of chemotherapeutic agent or antiviral agent with acylated
 pyrimidine nucleosides
 AB The subject invention discloses compds., compns. and methods for treatment
 and prevention of toxicity due to chemotherapeutic agents and antiviral
 agents. Disclosed are acylated derivs. of non-methylated pyrimidine
 nucleosides. These compds. are capable of attenuating damage to the
 hematopoietic system in animals receiving antiviral or antineoplastic
 chemotherapy. Thus, biol activity of 5-fluorouracil is reported.
 AN 1998:236253 HCAPLUS <<LOGINID::20100301>>
 DN 128:266247
 OREF 128:52559a,52562a
 TI Compositions of chemotherapeutic agent or antiviral agent with acylated
 pyrimidine nucleosides
 IN Von Borstel, Reid W.; Bamat, Michael K.
 PA Pro-Neuron, Inc., USA
 SO U.S., 26 pp., Cont.-in-part of U.S. Ser. No. 61,381, abandoned.
 CODEN: USXXAM
 DT Patent
 LA English
 FAN.CNT 13

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	US 5736531	A	19980407	US 1993-176485	19931230 <--
	EP 712629	A1	19960522	EP 1995-203050	19881027 <--
	EP 712629	B1	20030618		
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	JP 10001436	A	19980106	JP 1997-36734	19881027 <--
	JP 3474073	B2	20031208		
	JP 2001192335	A	20010717	JP 2000-379524	19881027 <--
	CA 2111571	A1	19930121	CA 1992-2111571	19920625 <--
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	CA 2504078	C	20070828		
	ES 2160579	T3	20011116	ES 1992-914215	19920625 <--
	ZA 9204975	A	19930428	ZA 1992-4975	19920703 <--
	IN 175688	A1	19950812	IN 1992-CA473	19920706 <--
	US 5246708	A	19930921	US 1992-911379	19920713 <--
	US 5470838	A	19951128	US 1992-997657	19921230 <--
	US 5583117	A	19961210	US 1993-140475	19931025 <--
	US 6020320	A	20000201	US 1993-153163	19931117 <--
	IN 177670	A1	19970215	IN 1994-CA701	19940902 <--
	US 5770582	A	19980623	US 1995-419767	19950410 <--
	US 5691320	A	19971125	US 1995-465454	19950605 <--
	US 6054441	A	20000425	US 1995-463790	19950605 <--
	US 6060459	A	20000509	US 1995-465016	19950605 <--
	US 7307166	B1	20071211	US 1995-463771	19950605 <--
	US 6258795	B1	20010710	US 1995-466145	19950606 <--
	US 6316426	B1	20011113	US 1995-466144	19950606 <--
	US 5968914	A	19991019	US 1995-472210	19950607 <--
	US 6232298	B1	20010515	US 1995-479519	19950607 <--
	US 6274563	B1	20010814	US 1995-479349	19950607 <--
	US 6348451	B1	20020219	US 1995-478736	19950607 <--
	US 6919320	B1	20050719	US 1995-473331	19950607 <--
	US 7166581	B1	20070123	US 1995-473330	19950607 <--
	US 20010025032	A1	20010927	US 1999-249790	19990216 <--
	US 6344447	B2	20020205		
	AU 9952624	A	19991202	AU 1999-52624	19991001
	US 6743782	B1	20040601	US 2000-494242	20000131 <--
	AU 2002320811	A1	20030403	AU 2002-320811	20021223
	US 20040033981	A1	20040219	US 2003-601863	20030624 <--
	US 20040192635	A1	20040930	US 2004-824501	20040415 <--
	US 20040220134	A1	20041104	US 2004-855835	20040528 <--
	AU 2005232288	A1	20051201	AU 2005-232288	20051110
	JP 2006137772	A	20060601	JP 2005-380457	20051228 <--
	JP 2008019268	A	20080131	JP 2007-233452	20070907 <--
PRAI	US 1987-115923	B2	19871028	<--	
	US 1987-115929	B2	19871028	<--	
	US 1989-438493	B2	19890627	<--	
	US 1990-487984	B2	19900205	<--	
	US 1991-724340	B2	19910705	<--	
	US 1992-903107	B2	19920625	<--	
	US 1993-61381	B2	19930514		
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	JP 1988-509176	A3	19881027	<--	
	JP 1994-303877	A3	19881027	<--	
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	US 1989-341925	B1	19890421	<--	
	US 1990-533933	B1	19900605	<--	
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US 1991-737913	B3	19910729	<--
CA 1992-2111571	A3	19920625	<--
IN 1992-CA473	A1	19920706	<--
US 1992-911379	A3	19920713	<--
US 1992-925931	B2	19920807	<--
US 1992-958598	B3	19921007	<--
US 1992-987730	B2	19921208	<--
US 1992-997657	A3	19921230	<--
US 1993-96407	B1	19930726	
US 1993-98884	B1	19930729	
US 1993-153163	A1	19931117	
US 1993-158799	B2	19931201	
US 1993-176485	A2	19931230	
US 1994-266897	B3	19940701	
US 1994-289214	A3	19940812	
US 1995-419767	A3	19950410	
US 1995-463740	A1	19950605	
US 1995-472210	A1	19950607	
AU 1995-29150	A3	19950630	
AU 1999-52624	A3	19991001	
US 2000-494242	A3	20000131	
AU 2002-320811	A3	20021223	
JP 2005-380457	A3	20051228	

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OS MARPAT 128:266247

OSC.G 13 THERE ARE 13 CAPLUS RECORDS THAT CITE THIS RECORD (13 CITINGS)

RE.CNT 34 THERE ARE 34 CITED REFERENCES AVAILABLE FOR THIS RECORD

ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 2 OF 35 HCAPLUS COPYRIGHT 2010 ACS on STN

TI Methods of reducing toxicity of chemotherapeutic and antiviral agents with acylated non-methylated pyrimidine nucleosides

AB Compsds., compns. and methods are disclosed for the treatment and prevention of toxicity due to chemotherapeutic agents and antiviral agents. Disclosed are acylated derivs. of non-methylated pyrimidine nucleosides. These compds. are capable of attenuating damage to the hematopoietic system in animals receiving antiviral or antineoplastic chemotherapy. Oral administration of triacetyluridine ameliorated the hematol. toxicity of 5-fluorouracil. Triacetyluridine and uridine increased the therapeutic index of 5-fluorouracil in tumor-bearing mice. Amelioration of the adverse effects of e.g. AZT is also described.

AN 1997:141015 HCAPLUS <<LOGINID::20100301>>

DN 126:139905

OREF 126:26891a

TI Methods of reducing toxicity of chemotherapeutic and antiviral agents with acylated non-methylated pyrimidine nucleosides

IN Vonborstel, Reid W.; Bamat, Michael K.

PA Pro-Neuron, Inc., USA

SO PCT Int. Appl., 142 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 13

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	WO 9640165	A1	19961219	WO 1996-US10067	19960606
	W: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG				

RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR,
 IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN
 IN 177670 A1 19970215 IN 1994-CA701 19940902 <--
 US 5968914 A 19991019 US 1995-472210 19950607 <--
 AU 9661114 A 19961230 AU 1996-61114 19960606
 AU 724805 B2 20000928
 EP 831849 A1 19980401 EP 1996-918461 19960606
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 IE, SI, LT, LV, FI
 JP 10511689 T 19981110 JP 1997-502184 19960606
 AU 9952624 A 19991202 AU 1999-52624 19991001
 AU 2002320811 A1 20030403 AU 2002-320811 20021223
 AU 2005232288 A1 20051201 AU 2005-232288 20051110
 PRAI US 1995-472210 A 19950607
 US 1987-115923 B2 19871028 <--
 US 1987-115929 B2 19871028 <--
 US 1989-438493 B2 19890627 <--
 US 1990-487984 B2 19900205 <--
 US 1991-724340 B2 19910705 <--
 US 1992-903107 B2 19920625 <--
 IN 1992-CA473 A1 19920706 <--
 US 1993-61381 B2 19930514
 US 1993-176485 A2 19931230
 AU 1995-29150 A3 19950630
 WO 1996-US10067 W 19960606
 AU 1999-52624 A3 19991001
 AU 2002-320811 A3 20021223

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OSC.G 4 THERE ARE 4 CAPLUS RECORDS THAT CITE THIS RECORD (4 CITINGS)

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD

ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 3 OF 35 HCAPLUS COPYRIGHT 2010 ACS on STN

TI Pyrimidine nucleotide precursors for treatment of systemic inflammation and inflammatory hepatitis

AB Pyrimidine nucleotide precursors, including acyl derivs. of cytidine, uridine, and orotate, and uridine phosphorylase inhibitors, and their use in enhancing resistance to sepsis or systemic inflammation, are disclosed. Triacetyluridine improved survival of mice treated with a LD of Salmonella typhimurium endotoxin, reduced endotoxin-caused tissue damage, reduced mortality in viral hepatitis in mice, and improved recovery from ethanol intoxication.

AN 1996:205056 HCAPLUS <<LOGINID::20100301>>

DN 124:250921

OREF 124:46221a,46224a

TI Pyrimidine nucleotide precursors for treatment of systemic inflammation and inflammatory hepatitis

IN Von Borstel, Reid W.; Bamat, Michael K.; Hiltbrand, Bradley M.

PA Pro-Neuron, Inc., USA

SO PCT Int. Appl., 95 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 13

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	WO 9601115	A1	19960118	WO 1995-US8259	19950630
	W: AU, CA, CN, JP, KR, MX				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	IN 177670	A1	19970215	IN 1994-CA701	19940902 <--
	US 5691320	A	19971125	US 1995-465454	19950605 <--

US 6232298	B1	20010515	US 1995-479519	19950607 <--
CA 2193967	A1	19960118	CA 1995-2193967	19950630
CA 2193967	C	20070911		
AU 9529150	A	19960125	AU 1995-29150	19950630
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EP 768883	A1	19970423	EP 1995-924764	19950630
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CN 1156409	A	19970806	CN 1995-194806	19950630
JP 10505578	T	19980602	JP 1996-503935	19950630
JP 4408450	B2	20100203		
CN 101066276	A	20071107	CN 2006-10105555	19950630
AU 9952624	A	19991202	AU 1999-52624	19991001
AU 2002320811	A1	20030403	AU 2002-320811	20021223
US 20030212036	A1	20031113	US 2003-421831	20030424
US 20040033981	A1	20040219	US 2003-601863	20030624 <--
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AU 1999-52624	A3	19991001		
US 2000-702876	A3	20001101		
AU 2002-320811	A3	20021223		
OSC.G 8	THERE ARE 8 CAPLUS RECORDS THAT CITE THIS RECORD (10 CITINGS)			
RE.CNT 2	THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD			
ALL CITATIONS AVAILABLE IN THE RE FORMAT				

L3 ANSWER 4 OF 35 HCAPLUS COPYRIGHT 2010 ACS on STN

TI Acylated pyrimidine nucleosides for treatment of toxicity from
chemotherapeutic and antiviral agents

AB The subject invention discloses compds., compns. and methods for treatment
and prevention of toxicity due to chemotherapeutic agents and antiviral
agents. Disclosed are acylated derivs. of non-methylated pyrimidine
nucleosides. These compds. are capable of attenuating damage to the
hematopoietic system in animals receiving antiviral or antineoplastic
chemotherapy. Oral administration of triacetyluridine
ameliorated the hematol. toxicity of 5-fluorouracil. Effects of other
derivs. are also presented. Synthesis of ethoxycarbonyluridine
is included.

AN 1995:756200 HCAPLUS <<LOGINID::20100301>>

DN 123:160865

OREF 123:28387a

TI Acylated pyrimidine nucleosides for treatment of toxicity from
chemotherapeutic and antiviral agents

IN Von Borstel, Reid Warren; Bamat, Michael Kevin

PA Pro-Neuron, Inc., USA

SO PCT Int. Appl., 143 pp.
CODEN: PIXXD2

DT Patent
LA English
FAN.CNT 13

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	WO 9426761	A1	19941124	WO 1993-US12689	19931230
	W: AU, CA, JP, KR				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	AU 9460812	A	19941212	AU 1994-60812	19931230
	IN 177670	A1	19970215	IN 1994-CA701	19940902 <--
	AU 9952624	A	19991202	AU 1999-52624	19991001
	AU 2002320811	A1	20030403	AU 2002-320811	20021223
	AU 2005232288	A1	20051201	AU 2005-232288	20051110
PRAI	US 1993-61381	A	19930514		
	IN 1992-CA473	A1	19920706	<--	
	WO 1993-US12689	W	19931230		
	AU 1995-29150	A3	19950630		
	AU 1999-52624	A3	19991001		
	AU 2002-320811	A3	20021223		
OS	MARPAT 123:160865				
OSC.G	4			THERE ARE 4 CAPLUS RECORDS THAT CITE THIS RECORD (4 CITINGS)	
RE.CNT	6			THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD	
				ALL CITATIONS AVAILABLE IN THE RE FORMAT	

L3 ANSWER 5 OF 35 HCAPLUS COPYRIGHT 2010 ACS on STN

TI Pyrimidine nucleotide precursors for treatment of systemic inflammation and inflammatory hepatitis

AB Pyrimidine nucleotide precursors including acyl derivs. of cytidine, uridine, and orotate, and uridine phosphorylase inhibitors, and their use in enhancing resistance to sepsis or systemic inflammation and treating or preventing inflammatory hepatitis are disclosed. Triacetyluridine and uridine improved survival of mice treated with killed Escherichia coli.

AN 1994:549080 HCAPLUS <<LOGINID::20100301>>

DN 121:149080

OREF 121:26721a,26724a

TI Pyrimidine nucleotide precursors for treatment of systemic inflammation and inflammatory hepatitis

IN Von Borstel, Reid Warren; Bamat, Michael Kevin; Hiltbrand, Bradley M.

PA Pro-Neuron, Inc., USA

SO PCT Int. Appl., 81 pp.
CODEN: PIXXD2

DT Patent
LA English
FAN.CNT 13

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	WO 9413687	A1	19940623	WO 1993-US11531	19931201 <--
	W: AT, AU, BB, BG, BR, BY, CA, CH, CZ, DE, DK, ES, FI, GB, HU, JP, KP, KR, KZ, LK, LU, MG, MN, MW, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SK, UA, VN				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
	CA 2150940	A1	19940623	CA 1993-2150940	19931201 <--
	CA 2150940	C	20070821		
	CA 2588495	A1	19940623	CA 1993-2588495	19931201 <--
	CA 2588495	C	20091117		
	AU 9457305	A	19940704	AU 1994-57305	19931201 <--
	EP 679160	A1	19951102	EP 1994-903322	19931201 <--
	EP 679160	B1	20041117		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				

JP 08503699	T	19960423	JP 1994-510442	19931201 <--
AT 282627	T	20041215	AT 1994-903322	19931201 <--
EP 1486210	A1	20041215	EP 2004-20415	19931201 <--
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE				
PT 679160	E	20050228	PT 1994-903322	19931201 <--
ES 2229212	T3	20050416	ES 1994-903322	19931201 <--
IL 107900	A	19991222	IL 1993-107900	19931206 <--
CN 1095268	A	19941123	CN 1993-121700	19931207 <--
CN 1089239	C	20020821		
ZA 9309208	A	19940808	ZA 1993-9208	19931208 <--
IN 177670	A1	19970215	IN 1994-CA701	19940902 <--
US 5691320	A	19971125	US 1995-465454	19950605 <--
US 6232298	B1	20010515	US 1995-479519	19950607 <--
HK 1004484	A1	20050422	HK 1998-103632	19980429 <--
AU 9878813	A	19981008	AU 1998-78813	19980805 <--
AU 732120	B2	20010412		
AU 9952624	A	19991202	AU 1999-52624	19991001
CN 1309970	A	20010829	CN 2000-134481	20001129 <--
CN 1211089	C	20050720		
AU 2002320811	A1	20030403	AU 2002-320811	20021223
US 20040033981	A1	20040219	US 2003-601863	20030624 <--
US 20040220134	A1	20041104	US 2004-855835	20040528 <--
JP 2005162757	A	20050623	JP 2004-348587	20041201 <--
AU 2005232288	A1	20051201	AU 2005-232288	20051110
JP 2007332144	A	20071227	JP 2007-177101	20070705 <--
PRAI US 1992-987730	A	19921208	<--	
US 1993-158799		19931201		
US 1987-115929	B2	19871028	<--	
US 1989-438493	B2	19890627	<--	
US 1990-438493	B2	19900626	<--	
IN 1992-CA473	A1	19920706	<--	
CA 1993-2150940	A3	19931201		
EP 1994-903322	A3	19931201		
JP 1994-510442	A3	19931201		
WO 1993-US11531	W	19931201		
CN 1993-121700	A3	19931207		
US 1994-266897	B3	19940701		
US 1995-463740	A1	19950605		
AU 1995-29150	A3	19950630		
AU 1999-52624	A3	19991001		
AU 2002-320811	A3	20021223		

OS MARPAT 121:149080

OSC.G 4 THERE ARE 4 CAPLUS RECORDS THAT CITE THIS RECORD (4 CITINGS)

RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD

ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 6 OF 35 HCAPLUS COPYRIGHT 2010 ACS on STN

TI Treatment of chemotherapeutic agent and antiviral agent toxicity with acylated pyrimidine nucleosides

AB The toxicity of antiviral and antineoplastic agents, resulting from their damage to the hematopoietic system or mucosal tissue, is prevented or treated with acylated derivs. of nonmethylated pyrimidine nucleosides. These derivs. may themselves be antineoplastic, antiviral, or antimalarial agents; they may be administered together with inhibitors of uridine phosphorylase, of cytidine deaminase, or of nucleotide transport. Thus, oral administration of triacetyluridine (500 mg/kg 8 times in 2 days) rescued mice from the hematol. toxicity of 5-fluorouracil (150 mg/kg i.p.), as shown by leukocyte and platelet counts.

AN 1993:205218 HCAPLUS <<LOGINID::20100301>>

DN 118:205218

OREF 118:35053a, 35056a

TI Treatment of chemotherapeutic agent and antiviral agent toxicity with
acylated pyrimidine nucleosides

IN Von Borstel, Reid W.; Bamat, Michael K.

PA Pro-Neuron, Inc., USA

SO PCT Int. Appl., 130 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 13

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	WO 9301202	A1	19930121	WO 1992-US5324	19920625 <--
	W: AU, BR, CA, FI, JP, KR, NO				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LU, MC, NL, SE				
	CA 2111571	A1	19930121	CA 1992-2111571	19920625 <--
	CA 2111571	C	20050823		
	CA 2504078	A1	19930121	CA 1992-2504078	19920625 <--
	CA 2504078	C	20070828		
	AU 9222544	A	19930211	AU 1992-22544	19920625 <--
	AU 667676	B2	19960404		
	EP 594667	A1	19940504	EP 1992-914215	19920625 <--
	EP 594667	B1	20010919		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE				
	JP 06508846	T	19941006	JP 1993-502244	19920625 <--
	JP 2584947	B2	19970226		
	AT 205850	T	20011015	AT 1992-914215	19920625 <--
	ES 2160579	T3	20011116	ES 1992-914215	19920625 <--
	ZA 9204975	A	19930428	ZA 1992-4975	19920703 <--
	IL 102407	A	19970110	IL 1992-102407	19920703 <--
	CN 1071577	A	19930505	CN 1992-108868	19920704 <--
	CN 1050996	C	20000405		
	IN 175688	A1	19950812	IN 1992-CA473	19920706 <--
	IN 177670	A1	19970215	IN 1994-CA701	19940902 <--
	HK 1003424	A1	20020215	HK 1998-102605	19980327 <--
	AU 9952624	A	19991202	AU 1999-52624	19991001
	GR 3036749	T3	20011231	GR 2001-401606	20010927 <--
	AU 2002320811	A1	20030403	AU 2002-320811	20021223
	AU 2005232288	A1	20051201	AU 2005-232288	20051110
PRAI	US 1991-724340	A	19910705	<--	
	US 1992-903107		19920625	<--	
	CA 1992-2111571	A3	19920625	<--	
	WO 1992-US5324	A	19920625	<--	
	IN 1992-CA473	A1	19920706	<--	
	AU 1995-29150	A3	19950630		
	AU 1999-52624	A3	19991001		
	AU 2002-320811	A3	20021223		

OS MARPAT 118:205218

OSC.G 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD (4 CITINGS)

RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD

ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 7 OF 35 HCAPLUS COPYRIGHT 2010 ACS on STN

TI Preparation of 5-fluorouridine via fluorination of
triacetyluridine in acetic acid.

AB Title compound (I), a known neoplasm inhibitor, was prepared in high yield and
purity by reaction of triacetyluridine with F in AcOH followed
by (stepwise) deacetylation of the intermediate
6-acetoxy-triacetyl-5-fluoro-5,6-dihydrouridine (II). Thus, F in N was
introduced over 24 h into a solution of 3.7 g triacetyluridine in
200 mL AcOH. The resulting II which was dissolved in 80 mL 0.15 M NaOMe
in MeOH and allowed to stand for 12 h at ambient temperature to give 2.15 g

(82%) I, m. 183-185°. I was prepared in 71% overall yield by 2-step deacetylation of II using Et3N to dehydroacetylate the 6-acetoxy group followed by deacetylation of the resulting triacetyl-5-fluorouridine by the Zemplen technique.

AN 1991:559681 HCAPLUS <<LOGINID::20100301>>

DN 115:159681

OREF 115:27363a,27366a

TI Preparation of 5-fluorouridine via fluorination of triacetyluridine in acetic acid.

IN Beranek, Jiri; Hrebabecky, Hubert; Brokes, Josef; Novotny, Ladislav

PA Czech.

SO Czech., 2 pp.

CODEN: CZXXA9

DT Patent

LA Czech

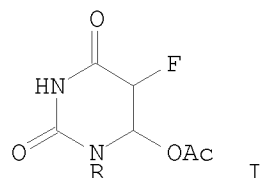
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	CS 264903	B1	19890912	CS 1984-1315	19840224 <--
PRAI	CS 1984-1315		19840224	<--	
OSC.G	1	THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)			

L3 ANSWER 8 OF 35 HCAPLUS COPYRIGHT 2010 ACS on STN

TI Preparation of carcinostatic nucleosides of 6-acetoxy-5-fluoro-5,6-dihydrouracil

GI



AB The title compds. (I; R = 2,3,5-tri-O-acetylribosyl, 2,3-di-O-acetyl-5-deoxyribosyl, 2,3-di-O-acetyl-5-chloro-5-deoxyribosyl) were prepared as new carcinostatics (no data), by a direct fluorination of acetyluracil nucleosides with F(g) in AcOH. Thus, F(g) was introduced over 24 h into a solution of 3.7 g triacetyluridine in 200 mL AcOH, to give 4.22 g title compound I (R = 2,3,5-tri-O-acetylribosyl). Deacetylation of the latter by MeONa in MeOH gave 2.39 g 5-fluorouridine.

AN 1991:515021 HCAPLUS <<LOGINID::20100301>>

DN 115:115021

OREF 115:19745a,19748a

TI Preparation of carcinostatic nucleosides of 6-acetoxy-5-fluoro-5,6-dihydrouracil

IN Beranek, Jiri; Hrebabecky, Hubert; Brokes, Josef; Novotny, Ladislav

PA Czech.

SO Czech., 3 pp.

CODEN: CZXXA9

DT Patent

LA Czech

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	CS 264904	B1	19890912	CS 1984-1316	19840224 <--
PRAI	CS 1984-1316		19840224	<--	

OS MARPAT 115:115021

L3 ANSWER 9 OF 35 HCAPLUS COPYRIGHT 2010 ACS on STN

TI Crystal and molecular structure of
4-(1,2,4-triazol-1-yl)-2',3',5'-tri-O-acetyluridine, C17H19N5O8

AB The title compound is orthorhombic, space group P212121, with a 5.764(2), b 10.587(2), and c 33.778(6) Å; dc = 1.358 for Z = 4. The final R = 0.039 and Rw = 0.032 for 1174 reflections. Atomic coordinates are given. Bond lengths and bond angles are given, and the sugar conformation discussed.

AN 1989:31691 HCAPLUS <<LOGINID::20100301>>

DN 110:31691

OREF 110:5189a,5192a

TI Crystal and molecular structure of
4-(1,2,4-triazol-1-yl)-2',3',5'-tri-O-acetyluridine, C17H19N5O8

AU Smykalla, Cornelia; Smits, J. M. M.; Beurskens, Gezina; Beurskens, Paul T.; Rijk, E. A. V.; Tesser, G. I.

CS Crystallogr. Lab., Univ. Nijmegen, Nijmegen, 6525 ED, Neth.

SO Journal of Crystallographic and Spectroscopic Research (1988),
18(4), 457-63

CODEN: JCREDB; ISSN: 0277-8068

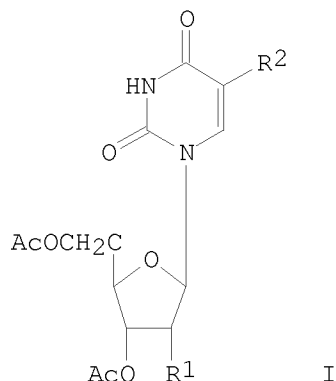
DT Journal

LA English

L3 ANSWER 10 OF 35 HCAPLUS COPYRIGHT 2010 ACS on STN

TI Preparation of 5-(perfluoroalkyl)uridine derivatives as intermediates for
antiviral agents

GI



AB The title derivs. I (R1 = H, OAc; R2 = lower perfluoroalkyl) (II), useful as intermediates for antiviral agents, are prepared from I (R2 = H) (III) with R2CO2H (R2 = same as II) in the presence of XeF2. XeF2 was gradually added to a solution of III (R1 = OAc), CF3CO2H, in CH2Cl2 at room temperature and the reaction mixture was further stirred for 5 h to give 88% II (R1 = OAc, R2 = CF3) (IV). IV was dissolved in NH3-saturated MeOH and the solution was left

stand overnight, concentrated, and then treated with hexane/ether in a refrigerator to give 71% 5-(trifluoromethyl)uridine.

AN 1989:24249 HCAPLUS <<LOGINID::20100301>>

DN 110:24249

OREF 110:4113a,4116a

TI Preparation of 5-(perfluoroalkyl)uridine derivatives as intermediates for antiviral agents

IN Tanabe, Akira; Matsuo, Noritada

PA Sumitomo Chemical Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 4 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 63188696	A	19880804	JP 1987-19128	19870129 <--
PRAI	JP 1987-19128		19870129	<--	
OS	MARPAT 110:24249				

L3 ANSWER 11 OF 35 HCAPLUS COPYRIGHT 2010 ACS on STN

TI Oxidation of pyrimidine base derivatives with m-chloroperbenzoic acid

AB Oxidns. of 1,3-dimethylthymine (I), 3',5'-diacetylthymidine (II), 1,3-dimethyluracil (III), 5-fluoro-1,3-dimethyluracil (IV), and 2',3',5'-triacyluridine with m-chloroperbenzoic acid were studied. A plausible mechanism for formation of the oxidation products was given.

AN 1987:137752 HCAPLUS <<LOGINID::20100301>>

DN 106:137752

OREF 106:22461a,22464a

TI Oxidation of pyrimidine base derivatives with m-chloroperbenzoic acid

AU Harayama, Takashi; Kotoji, Kayoko; Yanada, Reiko; Yoneda, Fumio; Taga, Tooru; Osaki, Kenji; Nagamatsu, Tomohisa

CS Fac. Pharm. Sci., Kyoto Univ., Kyoto, 606, Japan

SO Chemical & Pharmaceutical Bulletin (1986), 34(6), 2354-61

CODEN: CPBTAL; ISSN: 0009-2363

DT Journal

LA English

OS CASREACT 106:137752

L3 ANSWER 12 OF 35 HCAPLUS COPYRIGHT 2010 ACS on STN

TI Synthesis of covalently-linked double-helical cross sections representative of purine-purine and pyrimidine-pyrimidine duplexes

GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Covalently-linked double-helical cross sections I and II (R = OH, H) that resemble A-I base pairing and hypothetical C-U(T) base pairing resp., have been prepared in short reaction sequences from acetylated ribo- or deoxyribonucleosides. I represent a covalently linked purine-purine long base-pair mimic of a bulge in a double-helical RNA or DNA cross-section. II represent a covalently linked pyrimidine-pyrimidine short base-pair, analogous to a pinched-in RNA or DNA cross-section. I (R = OH) was prepared by reaction of tri-O-acetyladenosine with ClCH₂C(OEt)₂ to give the chloroimidate, condensation of the latter with tri-O-acetyladenosine in the presence of an acid catalyst to yield amine III, oxidative ring closure of III with 2-O₂NC₆H₄I(OAc)₂ in (CF₃)₂CMeOH-MeNO₂, and deacetylation by NH₃-MeOH.

AN 1987:67619 HCAPLUS <<LOGINID::20100301>>

DN 106:67619

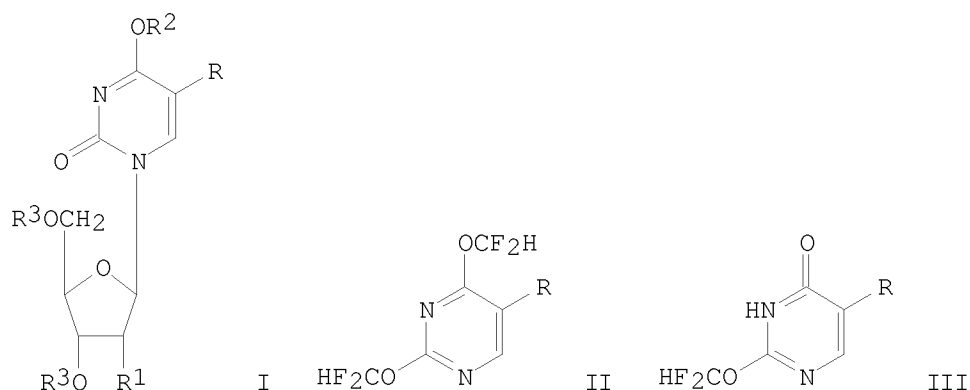
OREF 106:11139a,11142a

TI Synthesis of covalently-linked double-helical cross sections

representative of purine-purine and pyrimidine-pyrimidine duplexes

AU Leonard, Nelson J.; Devadas, Balekudru
CS Sch. Chem. Sci., Univ. Illinois, Urbana, IL, 61801-3731, USA
SO Journal of the American Chemical Society (1987), 109(2), 623-5
CODEN: JACSAT; ISSN: 0002-7863
DT Journal
LA English
OS CASREACT 106:67619

L3 ANSWER 13 OF 35 HCAPLUS COPYRIGHT 2010 ACS on STN
TI Reaction of uracil derivatives with difluorocarbene
GI



AB Uridines I (R = H, Me; R₁ = H, OH; R₂ = CF₂H; R₃ = H) were prepared by silylation of triacetyluridine and diacetylthymidine with NH(SiMe₃)₂. I (R₁ = H, OAc; R₂ = SiMe₃; R₃ = Ac) were desilylated with Hg(CF₃)₂ to produce I (R₁ = H, OAc; R₂ = CF₂H; R₃ = Ac) and subsequent hydrolysis produced I (R₁ = H, OH; R₂ = CF₂H; R₃ = H). The silylation and difluorocarbene insertion reactions were also completed on the nucleoside bases to yield the bis(fluoromethyl) and difluoromethyl adducts II and III.

AN 1986:424561 HCAPLUS <<LOGINID::20100301>>

DN 105:24561

OREF 105:4141a,4144a

TI Reaction of uracil derivatives with difluorocarbene

AU Pein, Claus Dietmar; Cech, Dieter

CS Sekt. Chem., Humboldt-Univ. Berlin, Berlin, DDR-1040, Ger. Dem. Rep.

SO Zeitschrift fuer Chemie (1985), 25(9), 328-9

CODEN: ZECEAL; ISSN: 0044-2402

DT Journal

LA German

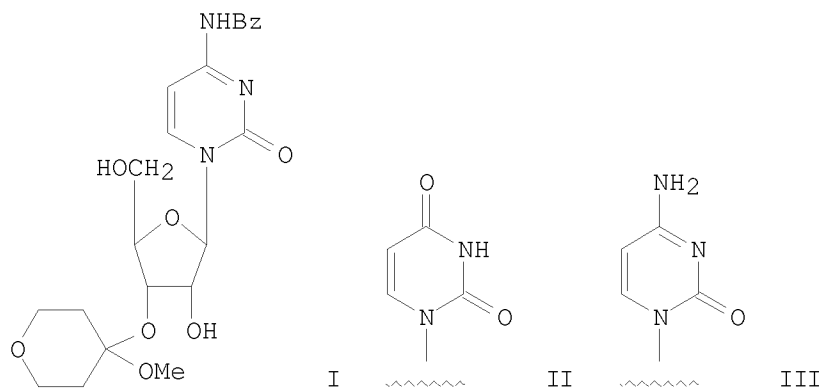
OS CASREACT 105:24561

OSC.G 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)

L3 ANSWER 14 OF 35 HCAPLUS COPYRIGHT 2010 ACS on STN

TI Preparation of 3'-O-(4-methoxytetrahydropyran-4-yl) derivatives of 4-N-benzoylcytidine and uridine

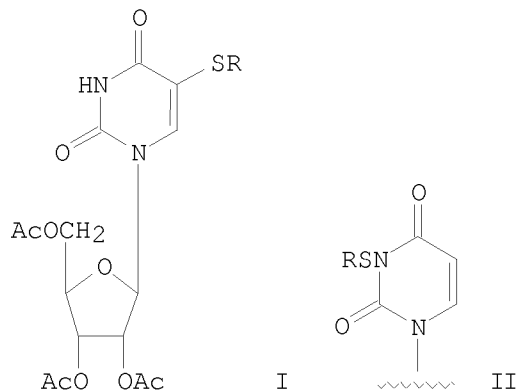
GI



AB The title compds. I and III were prepared from N4,2'-O,5'-O-triacetylcytidine in 54 and 65% overall yields, resp.
3'-O-(4-Methoxytetrahydropyran-4-yl)cytidine (III) was the common intermediate for both I and II.

AN 1986:110097 HCAPLUS <<LOGINID::20100301>>
DN 104:110097
OREF 104:17469a
TI Preparation of 3'-O-(4-methoxytetrahydropyran-4-yl) derivatives of 4-N-benzoylcytidine and uridine
AU Norman, David G.; Reese, Colin B.
CS Dep. Chem., King's Coll., London, WC2R 2LS, UK
SO Synthesis (1985), (9), 874-5
CODEN: SYNTBF; ISSN: 0039-7881
DT Journal
LA English
OS CASREACT 104:110097
OSC.G 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

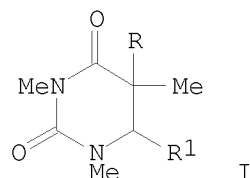
L3 ANSWER 15 OF 35 HCAPLUS COPYRIGHT 2010 ACS on STN
TI Synthesis of C-5 and N-3 arenesulfenyl uridines. Preparation and properties of a new class of uracil protecting group
GI



AB The nature and position of the ring substituent of an arenesulfenyl chloride control the regiospecific formation of either a C-5 substituted product, as in (arenesulfenyl)uridines I (R = Ph, p-MeC₆H₄, p-ClC₆H₄, p-O₂NC₆H₄), or a N-3 substituted product, as in II [R = 2-O₂NC₆H₄, 4,2-Me(O₂N)C₆H₃, 2,4-(O₂N)₂C₆H₃]. Arenesulfenyl groups successfully protect the urethane function of the uracil residue as exemplified by the synthesis of 2'-O-methyluridine and oligoribonucleotide building blocks.

AN 1985:578555 HCAPLUS <<LOGINID::20100301>>
 DN 103:178555
 OREF 103:28751a,28754a
 TI Synthesis of C-5 and N-3 arenesulfenyl uridines. Preparation and properties of a new class of uracil protecting group
 AU Welch, C. J.; Bazin, H.; Heikkila, J.; Chattopadhyaya, J.
 CS Biomed. Cent., Uppsala Univ., Uppsala, S-751 23, Swed.
 SO Acta Chemica Scandinavica, Series B: Organic Chemistry and Biochemistry (1985), B39(3), 203-12
 CODEN: ACBOCV; ISSN: 0302-4369
 DT Journal
 LA English
 OS CASREACT 103:178555
 OSC.G 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)

L3 ANSWER 16 OF 35 HCAPLUS COPYRIGHT 2010 ACS on STN
 TI Studies on oxidative modifications of nucleic acid pyrimidine bases
 GI



AB Oxidation of diacetylthymidine, triacetyluridine, and 5-fluoro-1,3-dimethyluracil with m-chloroperbenzoic acid occurred at the double bond in the pyrimidine base. Cross-linkage of the bromohydrin I (R = β -Br, R₁ = α -OH) with PhCH₂NH₂ and glycine Et ester gave I (R = OH, R₁ = NHCH₂Ph, NHCH₂CO₂Et). A mechanism for the formation of oxidation products is presented.

AN 1985:505252 HCAPLUS <<LOGINID::20100301>>
 DN 103:105252
 OREF 103:16873a,16876a
 TI Studies on oxidative modifications of nucleic acid pyrimidine bases
 AU Harayama, Takashi; Yanada, Reiko; Kotoji, Kayoko; Yoneda, Fumio; Taga, Toru; Osaki, Kenji; Nagamatsu, Tomohisa
 CS Fac. Pharm. Sci., Kyoto Univ., Kyoto, 606, Japan
 SO Nucleic Acids Symposium Series (1984), 15(Symp. Nucleic Acids Chem.), 1-4
 CODEN: NACSD8; ISSN: 0261-3166
 DT Journal
 LA English
 OS CASREACT 103:105252

L3 ANSWER 17 OF 35 HCAPLUS COPYRIGHT 2010 ACS on STN
 TI Triazenes as transport form of sulfur mustard: synthesis of 3-[S-(2-chloroethyl)thioethyl]aryltriazenes and study of their reactions

in aqueous and nonaqueous solutions

AB A group of biol. active 1-aryl-3-[S-(2-chloroethyl)thioethyl]triazenes has been synthesized. The rates of decomposition of 4-NCC6H4NHN:NCH2CH2SCH2CH2Cl (I), determined polarog., increase with decrease in pH from 7.1 to 5.1. A deuterated triazene discriminated between alternative decomposition pathways. The data are consistent with initial protonation of the triazene and generation of a S-(2-chloroethyl)thioethyl cation (or its kinetic equivalent) which undergoes rearrangements as detected by deuterium scrambling. A second competing pathway may involve cyclization of the triazene to a 1-aryl-1,2,3-triazathiaoctene intermediate which then undergoes nucleophilic opening with loss of N. These triazenes readily esterify 3,5-(O2N)2C6H3CO2H and (EtO)2P(O)OH in Et2O solns. The use of the D labeled triazene indicates that these triazenes esterify predominantly via ion-pair mechanism and SN2 displacement is the minor pathway. I alkylated the N3-position of triacetyluridine, also via a combination of ion-pair and SN2 displacement mechanisms as determined D labeling. These studies are expected to assist in the interpretation of the cytotoxic effects of these triazenes.

AN 1985:131602 HCAPLUS <<LOGINID::20100301>>

DN 102:131602

OREF 102:20643a,20646a

TI Triazenes as transport form of sulfur mustard: synthesis of 3-[S-(2-chloroethyl)thioethyl]aryltriazenes and study of their reactions in aqueous and nonaqueous solutions

AU Singh, Ranjit

CS Dep. Chem., Univ. Alberta, Edmonton, AB, T6G 2G2, Can.

SO Indian Journal of Chemistry, Section B: Organic Chemistry Including Medicinal Chemistry (1984), 23B(11), 1088-97
CODEN: IJSBDB; ISSN: 0376-4699

DT Journal

LA English

L3 ANSWER 18 OF 35 HCAPLUS COPYRIGHT 2010 ACS on STN

TI Structural assignment of N3-acylated uridine derivatives by means of carbon-13 NMR spectroscopy

AB (Me2CH)2NEt was effective as a base for acylation of 2',3',5'-tri-O-acetyluridine with various acid chlorides. The 13C NMR spectra of the products and related compds. showed clearly that the acyl group introduced into the uracil moiety was attached at N-3.

AN 1985:24979 HCAPLUS <<LOGINID::20100301>>

DN 102:24979

OREF 102:4135a,4138a

TI Structural assignment of N3-acylated uridine derivatives by means of carbon-13 NMR spectroscopy

AU Kamimura, Takashi; Masegi, Tsukio; Sekine, Mitsuo; Hata, Tsujiaki

CS Dep. Life Chem., Tokyo Inst. Technol., Yokohama, 227, Japan

SO Tetrahedron Letters (1984), 25(38), 4241-4
CODEN: TELEAY; ISSN: 0040-4039

DT Journal

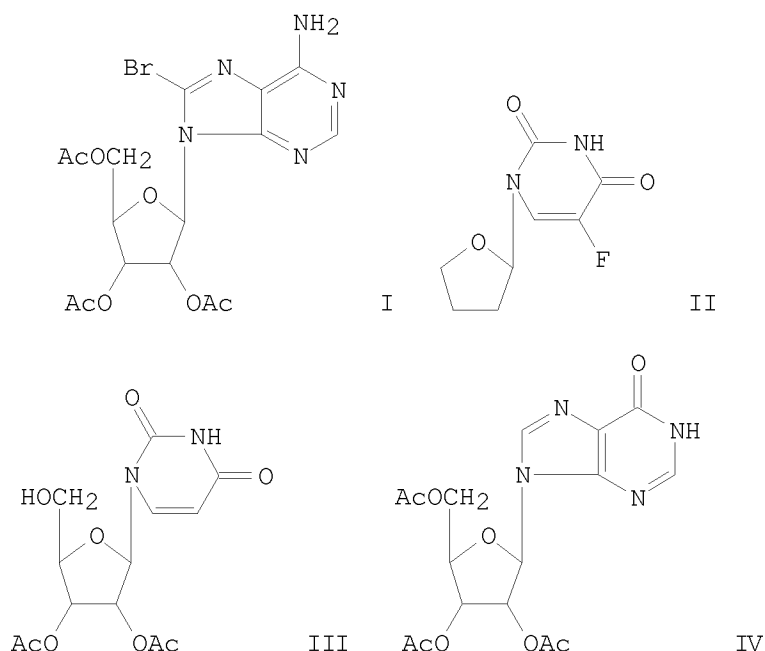
LA English

OSC.G 5 THERE ARE 5 CAPLUS RECORDS THAT CITE THIS RECORD (5 CITINGS)

L3 ANSWER 19 OF 35 HCAPLUS COPYRIGHT 2010 ACS on STN

TI Hydrogen bond equilibrium constants of some unusual nucleotide base pairs

GI



AB Approx. H bond association consts. were determined for base pairs formed by an adenine derivative (I) and a number of unusual pyrimidine bases [including ftorafur (II) and tri-O-acetyluridine (III)]. A series is found in which the H bond strength in the base pairs varies. In certain cases the H bond equilibrium constant is larger than in the adenine-thymine pair. Inosine derivs.

(IV) seem to have a nonnegligible chance of replacing guanosine in the guanosine-cytosine pair. IR, near-IR (overtone), and NMR spectra were used to determine the equilibrium consts.

AN 1984:586303 HCAPLUS <<LOGINID::20100301>>

DN 101:186303

OREF 101:28125a,28128a

TI Hydrogen bond equilibrium constants of some unusual nucleotide base pairs

AU Buchet, R.; Beauvais, Linda; Sandorfy, C.

CS Dep. Chim., Univ. Montreal, Montreal, QC, H3C 3V1, Can.

SO Journal of Biomolecular Structure & Dynamics (1984), 2(1), 221-32

CODEN: JBSDD6; ISSN: 0739-1102

DT Journal

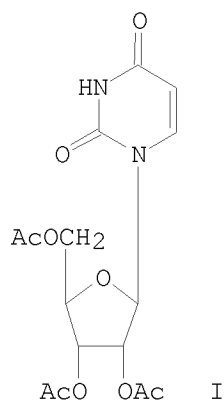
LA English

OSC.G 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD (3 CITINGS)

L3 ANSWER 20 OF 35 HCAPLUS COPYRIGHT 2010 ACS on STN

TI Structure of 2',3',5'-tri-O-acetyluridine, C15H18N2O9

GI



AB Crystal structure of the title compound (I) was determined The sugar-ring pucker

is 3T4 [C(3')-endo/C(4')-exo], with $P = 46.5(6)^\circ$, and χ_{CN} [C(2)-N(1)-C(1')-O(4')] is $74.2(6)^\circ$, in the syn range. A close contact of $2.90(3) \text{ \AA}$ between acetyl oxygen and a neighboring base ring is noted. The pyrimidine base ring is essentially planar, as are the acetyl groups.

AN 1984:511332 HCAPLUS <<LOGINID::20100301>>

DN 101:111332

OREF 101:17017a,17020a

TI Structure of 2',3',5'-tri-O-acetyluridine, C₁₅H₁₈N₂O₉

AU Low, J. N.; Wilson, C. C.

CS Carnegie Lab. Phys., Univ. Dundee, Dundee, DD1 4HN, UK

SO Acta Crystallographica, Section C: Crystal Structure Communications (1984), C40(6), 1030-2

CODEN: ACSCEE; ISSN: 0108-2701

DT Journal

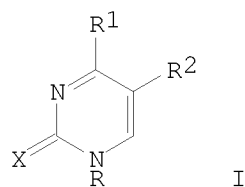
LA English

OSC.G 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

L3 ANSWER 21 OF 35 HCAPLUS COPYRIGHT 2010 ACS on STN

TI 4-Substituted pyrimidine nucleosides

GI



AB Pyrimidine nucleosides and their analogs I (R = optionally substituted monosaccharide, aryl, alkyl, heterocyclic; R1 = optionally substituted amino, N3, optionally substituted SH, halogen; R2 = halogen, optionally substituted alkyl, aryl, alkoxy; X = O, S, NH) were prepared from I (R1 = OH) via their sulfonates. Thus, triacetyluridine was tosylated and the ester treated with NH₃-MeOH to give 82% cytidine.

AN 1980:568560 HCAPLUS <<LOGINID::20100301>>

DN 93:168560
 OREF 93:26863a,26866a
 TI 4-Substituted pyrimidine nucleosides
 IN Baerwolff, Dieter; Demirov, G. D.; Golovinskii, E. V.
 PA Akademie der Wissenschaften der DDR, Zentralinstitut fuer
 Molekularbiologie, Ger. Dem. Rep.
 SO Ger. (East), 7 pp.
 CODEN: GEXXA8
 DT Patent
 LA German
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DD 140254	A1	19800220	DD 1978-209494	19781204 <--
PRAI	DD 1978-209494	A1	19781204	<--	

L3 ANSWER 22 OF 35 HCAPLUS COPYRIGHT 2010 ACS on STN
 TI Synthesis of dicytidyl-(3'-5')-1,2-di(adenosin-N6-yl)ethane and
 dicytidyl-(3'-5')-1,4-di(adenosin-N6-yl)butane: covalently joined
 terminals of two transfer ribonucleic acids and their behavior toward
 snake venom phosphodiesterase
 GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB The chemical synthesis of the title bridged trinucleoside diphosphates, I and
 II, along with the corresponding dinucleoside phosphates, III and IV is
 described. Bridged nucleosides, V and VI, gave on treatment with tri-Et
 orthoformate in the presence of p-toluenesulfonic acid in DMF the cyclic
 orthoesters, VII and VIII. Condensation of VII and VIII with N,2',5'-O-
 triacetylcytidine 3'-phosphate, using dicyclohexylcarbodiimide in
 pyridine, afforded after deblocking and chromatog. separation, products I-IV.
 The latter were readily degraded with pancreatic RNase, but I and III were
 completely resistant toward snake venom phosphodiesterase, whereas II and
 IV were digested to the extent of 65 and 43%, resp. The major product of
 degradation of II with phosphodiesterase was IV, resulting from the combined
 action of phosphodiesterase and contaminating phosphomonoesterase. The
 results are explained in terms of stacking of terminal bridged nucleoside
 units in I-IV. The implications of these findings for the function of
 snake venom phosphodiesterase are discussed.

AN 1980:54061 HCAPLUS <<LOGINID::20100301>>

DN 92:54061

OREF 92:8927a,8930a

TI Synthesis of dicytidyl-(3'-5')-1,2-di(adenosin-N6-yl)ethane and
 dicytidyl-(3'-5')-1,4-di(adenosin-N6-yl)butane: covalently joined
 terminals of two transfer ribonucleic acids and their behavior toward
 snake venom phosphodiesterase

AU Zemlicka, Jiri

CS Sch. Med., Wayne State Univ., Detroit, MI, 48201, USA

SO Biochemistry (1980), 19(1), 163-8

CODEN: BICHAW; ISSN: 0006-2960

DT Journal

LA English

OSC.G 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD (3 CITINGS)

L3 ANSWER 23 OF 35 HCAPLUS COPYRIGHT 2010 ACS on STN

TI Cytidylyl-(3' → 5')-3'-N-mercaptoacetylpuromycin aminonucleoside
 synthesis and its reaction with [3H]-N-acetyl-L-phenylalanyl-tRNA on E.

coli and rat liver ribosomes

AB A thiol-containing dinucleoside derivative of puromycin, cytidyl-(3'→5')-3'-N-mercaptoacetylpuromycin amino nucleoside (I), was synthesized and its ability to release N-acetyl-L-phenylalanine from tRNA on Escherichia coli and rat liver ribosomes was evaluated. I was as active as puromycin in reacting with 3H-labeled N-acetyl-L-phenylalanyl-tRNA on E. coli ribosomes but only moderately active in the rat liver system. Chromatog. anal. of assay products revealed covalent attachment of N-acetyl-L-phenylalanine-3H to the dinucleoside derivative. Results obtained here show that an inactive thiopuromycin derivative [3']-N-mercaptoacetylpuromycin aminonucleoside becomes a potent acceptor of N-acetyl-L-phenylalanine from E. coli ribosomes when substituted in the 5'-position by a cytidine-3'-phosphate residue.

AN 1979:134106 HCAPLUS <<LOGINID::20100301>>
 DN 90:134106
 OREF 90:21183a,21186a
 TI Cytidyl-(3'→5')-3'-N-mercaptoacetylpuromycin aminonucleoside synthesis and its reaction with [3H]-N-acetyl-L-phenylalanyl-tRNA on E. coli and rat liver ribosomes
 AU Ariatti, Mario; Hawtrey, Arthur O.
 CS Dep. Biochem., Univ. Rhodesia, Salisbury, Rhodesia
 SO South African Journal of Science (1978), 74(11), 432-5
 CODEN: SAJSAR; ISSN: 0038-2353
 DT Journal
 LA English

L3 ANSWER 24 OF 35 HCAPLUS COPYRIGHT 2010 ACS on STN
 TI 5-Fluorouridine and 5-fluorocytidine. Direct fluorination of the pyrimidine ring
 AB 5-Fluorouridine was prepared by treatment of 2',3',5'-tri-O-acetyluridine with CF₃OF-CCl₃F in CHCl₃ at -78° followed by deacetylation. 5-Fluorocytidine HCl was prepared similarly from N⁴-acetyl-2',3',5'-tri-O-acetylcytidine.

AN 1979:6656 HCAPLUS <<LOGINID::20100301>>
 DN 90:6656
 OREF 90:1221a,1224a
 TI 5-Fluorouridine and 5-fluorocytidine. Direct fluorination of the pyrimidine ring
 AU Robins, Morris J.; MacCoss, Malcolm; Naik, S. R.
 CS Dep. Chem., Univ. Alberta, Edmonton, AB, Can.
 SO Nucleic Acid Chem. (1978), Volume 2, 895-900. Editor(s): Townsend, Leroy B.; Tipson, R. Stuart. Publisher: Wiley, New York, N. Y.
 CODEN: 39GCA6
 DT Conference
 LA English

L3 ANSWER 25 OF 35 HCAPLUS COPYRIGHT 2010 ACS on STN
 TI Olefin cycloadditions to 2',3',5'-triacetyluridine
 AB Photocycloaddn. of 2',3',5'-tri-O-acetyluridine occurred quant. with tetramethylethylene, isopropenyl acetate, (EtO)₂C:CH₂ and vinylene carbonate (I). The adduct with I on solution in EtOH-Et₃N gave 5-carboxymethyl-2',3',5'-tri-O-acetyluridine.

AN 1976:543386 HCAPLUS <<LOGINID::20100301>>
 DN 85:143386
 OREF 85:22993a,22996a
 TI Olefin cycloadditions to 2',3',5'-triacetyluridine
 AU Charlton, James L.; Lai, Hoi Kiong
 CS Dep. Chem., Univ. Manitoba, Winnipeg, MB, Can.
 SO Canadian Journal of Chemistry (1976), 54(9), 1445-8
 CODEN: CJCHAG; ISSN: 0008-4042

DT Journal
 LA English
 OSC.G 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD (3 CITINGS)

L3 ANSWER 26 OF 35 HCAPLUS COPYRIGHT 2010 ACS on STN
 TI 5-Mercaptopyrimidine nucleosides through one-step synthesis of
 5-thiocyanatouridine and -2'-deoxyuridine
 GI For diagram(s), see printed CA Issue.
 AB Uridine with NCSCl in AcOH for 1 hr gave 48% 5-thiocyanatouridine (I).
 Similarly 2 -deoxyuridine and 2 ,3 ,5 -triacytyluridine gave 55%
 and 96%, resp., of the corresponding 5-thiocyanato derivs. Reduction of I
 with Na dithionite-mercaptoethanol or dithiothreitol gave
 5-mercaptouridine.
 AN 1972:552489 HCAPLUS <<LOGINID::20100301>>
 DN 77:152489
 OREF 77:25083a,25086a
 TI 5-Mercaptopyrimidine nucleosides through one-step synthesis of
 5-thiocyanatouridine and -2'-deoxyuridine
 AU Nagamachi, T.; Torrence, P. F.; Waters, J. A.; Witkop, B.
 CS Lab. Chem., Natl. Inst. Health, Bethesda, MD, USA
 SO Journal of the Chemical Society, Chemical Communications (1972),
 (18), 1025-6
 CODEN: JCCCAT; ISSN: 0022-4936
 DT Journal
 LA English

L3 ANSWER 27 OF 35 HCAPLUS COPYRIGHT 2010 ACS on STN
 TI Nucleic acid components and their analogs. CXLVII. Preparation of 5-
 ethoxycarbonyluridine, 5-carboxyuridine, and their nucleotidic
 derivatives
 AB A mixture of EtO2CCH2COC1 and H2NCO2Et stirred at 100° gave
 EtO2CCH2CONHCO2Et, which refluxed with Ac2O and HC(OEt)3 gave
 (E)-EtO-CH:C(CO2Et)CONHCO2Et. Condensation of the latter compound with
 2,3-O-isopropylidene-β-D-ribofuranosylamine p-toluenesulfonate and
 removal of the :CMe2 group gave 5-ethoxycar-bonyluridine (I), which was
 hydrolyzed to give 5-carboxyuridine (II). I or II treated successively
 with P(OEt)3 and (Cl3C)2CO gave the 2',3'-cyclic phosphates of I and II
 resp. (substrates for pancreatic ribonuclease and ribonuclease T2).
 Treatment of II with POCl3 in OP(OEt)3 gave II 5'-phosphate, which was
 dephosphorylated by the snake venom 5'-nucleotidase. Uridyl-yl-(3'
 → 5')-5- ethoxycarbonyluridine and guanylyl-(3' →
 5')-5-ethoxycarbonyluridine were split by the snake venom
 phosphodiesterase while uridylyl-(3' → 5')-5-carboxyuridine and
 guanylyl-(3' → 5')-5-carboxyuridine were resistant in this respect.
 AN 1972:502109 HCAPLUS <<LOGINID::20100301>>
 DN 77:102109
 OREF 77:16843a,16846a
 TI Nucleic acid components and their analogs. CXLVII. Preparation of 5-
 ethoxycarbonyluridine, 5-carboxyuridine, and their nucleotidic
 derivatives
 AU Holy, Antonin
 CS Cesk. Akad. Ved, Prague, Czech.
 SO Collection of Czechoslovak Chemical Communications (1972),
 37(5), 1555-76
 CODEN: CCCCAK; ISSN: 0010-0765
 DT Journal
 LA English

L3 ANSWER 28 OF 35 HCAPLUS COPYRIGHT 2010 ACS on STN
 TI Purine derivatives
 AB Triacetyluridine (333 mg) and 684 mg theophylline are heated 10

hr at 170° with 381 mg BzCl, 410 mg SbCl₃, 3 ml xylene, and 2 ml PhNO₂ and cooled, 0.1N ethanolic NH₄OH added, the mixture evaporated in vacuo, and the residue extracted with CHCl₃ to give 276 mg 7-(2,3,5-tri-O-acetyl-β-D-ribofuranosyl)theophylline, amorph. Similarly prepared are 2',3',5'-tri-O-acetyl-N⁶-benzoyladenine, 9-(2,3,5-tri-O-acetyl-β-D-ribofuranosyl)-6-dimethylaminopurine, 2',3',5'-tri-O-acetyl-inosine, 7-(2,3,5-tri-O-acetyl-β-D-ribofuranosyl)-N'-acetylguanine, 9-(2,3,5-tri-O-acetyl-β-D-ribofuranosyl)-N'-acetylguanine, and 2',3'-di-O-benzoyl-5'-diphenylphosphoryl-β-D-ribofuransyltheophylline.

AN 1971:142301 HCAPLUS <<LOGINID::20100301>>

DN 74:142301

OREF 74:23003a,23006a

TI Purine derivatives

IN Shimizu, Bunji; Miyagi, Michiko

PA Sankyo Co., Ltd.

SO Jpn. Tokkyo Koho, 7 pp.

CODEN: JAXXAD

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	JP 46005710	B4	19710212	JP	19670810 <--

L3 ANSWER 29 OF 35 HCAPLUS COPYRIGHT 2010 ACS on STN

TI Oligonucleotidic compounds. XXXV. Reaction of diribonucleoside phosphates with dimethylformamide acetals

AB NH₄ (Et₃NH, BuMe₃N) salts of some diribonucleoside phosphates (U pU, UpC, UpA, UpI, ApU, GpU, CpI, and CpX) containing uridine (I), inosine, or xanthosine were methylated with Me₂NCH(OMe)₂ (II) in HCONMe₂ (or Me₂SO) at 60° to the corresponding derivs. of N³-methyluridine (III), N¹-methylinosine, and N-methylxanthosine (in the last case, the exact position of the Me group was not determined). The methylation was not accompanied by any isomerization of the 3' → 5' internucleotide linkage or any other side-reactions. After 3 (19) hr at 60°, II and UpU NH₄ salt gave 27 (15) % uridylyl-(3' → 5')-N³-methyluridine (IV), 27 (18) % N³-methyluridylyl-(3' → 5')-uridine, 29 (60) % N³-methyluridylyl-(3' → 5')-N³-methyluridine, and 17 (7) % UpU. After 5 hr at 60°, II and UpI NH₄ salt gave 7% uridylyl-(3' → 5')-N¹-methylinosine, 33% N³-methyluridylyl-(3' → 5')-inosine, 43% N³-methyluridylyl-(3' → 5')-N¹-methylinosine (V), and 17% UpI (after 18 hr, 100% V resulted). UpC NH₄ salt and II (12 hr at 60°) gave 100% N³-methyluridylyl-(3' → 5')-cytidine. UpA NH₄ salt and II (24 hr at 60°) gave 75% N³-methyluridylyl-(3' → 5')-adenosine. ApU and II (12 hr at 60°) gave 100% adenosine-(3' → 5')-N³-methyl uridine. GpU Et₃NH salt (7 hr at 60°) gave 95% guanosine-(3' → 5')-N³-methyluridine. The internucleotide linkage of some diribonucleoside phosphates (NH₄ salts) derived from cytidine 3'-phosphate (CpU, CpA, and CpC) was cleaved by II at 60° or Me₂NCH(OCH₂CM₃)₂ (VI) at 80° with the formation of cytidine 2',3'-cyclic phosphate (VII) and the corresponding nucleoside (or its N-Me derivative). Thus, the reaction of CpU NH₄ salt and II (6 hr at 60°) gave 2.5% cytidylyl-(3' → 5')-N³-methyluridine, 73% VII, 21% cytidine 2'(3')-phosphate Me ester, 3.5% CpU, 25% I, and 75% III. CpG, ApC, 2'-deoxycytidylyl-(3' → 5')-adenosine, cytidylyl-(3' → 5')-8-bromoinosine (VIII), and cytidylyl-(3' → 5')-8-dimethylaminoinosine (IX) did not react with II or VI. CpU Bu₃MeN salt and II (18 hr at 60°) gave 90% cytidylyl-(3' → 5')-N³-methyluridine. CpI, CpX, VIII, and IX were prepared by the

N,N'-dicyclohexyl-carbodiimide condensation of N4,02',05'-triacetylcytidine 3'-phosphate with 2',3'-O-ethoxymethyleneinosine, 2',3'-O-eth-oxymethylenexanthosine, 2',3'-O-ethoxymethylene-8-bromoinosine, and 2',3'-O-ethoxymethylene-8-dimethylaminoinosine, resp., deacetylation (with aqueous NH3), and removal of the ethoxymethylene group with aqueous AcOH. IV

was

prepared similarly from 2',5'-di-O-acetyluridine 3'-phosphate and 2',3'-O-ethoxymethylene-N3-methyluridine. The stability of the 3' → 5' internucleotide linkage in various diribonucleoside phosphates or their derivs. to II or VI is discussed.

AN 1970:44054 HCAPLUS <<LOGINID::20100301>>

DN 72:44054

OREF 72:8118h,8119a

TI Oligonucleotidic compounds. XXXV. Reaction of diribonucleoside phosphates with dimethylformamide acetals

AU Holy, Antonin; Zemlicka, Jiri

CS Cesk. Akad. Ved, Prague, Czech.

SO Collection of Czechoslovak Chemical Communications (1969), 34(12), 3921-35

CODEN: CCCCAK; ISSN: 0010-0765

DT Journal

LA English

L3 ANSWER 30 OF 35 HCAPLUS COPYRIGHT 2010 ACS on STN

TI Synthesis of oligoribonucleotides. VI. 2'-O-Acyl ribonucleoside derivatives as intermediates in the synthesis of dinucleoside phosphates

AB N2,02',05'-Tribenzoylguanosine (I) was obtained as a pure crystalline compound. The di-ribonucleoside phosphate: guanylyl-(3' → 5')-uridine[GpU] and cytidylyl-(3' → 5')-uridine [CpU] were prepared in moderate yields by the condensation (in pyridine with mesitylenesulfonyl chloride as the condensing agent) between 2',3'-di-O-acetyluridine5'-phosphate and, I and N4,02',05'-triacetylcytidine, resp. The GpU was completely digested to guanosine 3'-phosphate and uridine in the presence of ribonuclease T1, while the CpU was .apprx.98% digested to cytidine 3'-phosphate and uridine in the presence of pancreatic ribonuclease. 22 references.

AN 1968:114909 HCAPLUS <<LOGINID::20100301>>

DN 68:114909

OREF 68:22179a,22182a

TI Synthesis of oligoribonucleotides. VI. 2'-O-Acyl ribonucleoside derivatives as intermediates in the synthesis of dinucleoside phosphates

AU Fromageot, H. P. M.; Reese, Colin B.; Sulston, J. E.

CS Univ. Chem. Lab., Cambridge, UK

SO Tetrahedron (1968), 24(9), 3533-40

CODEN: TETRAB; ISSN: 0040-4020

DT Journal

LA English

OSC.G 9 THERE ARE 9 CAPLUS RECORDS THAT CITE THIS RECORD (9 CITINGS)

L3 ANSWER 31 OF 35 HCAPLUS COPYRIGHT 2010 ACS on STN

TI Synthesis of oligo- and polynucleotides. VIII. Synthesis of dinucleotides from the ribose series with a terminal 3'-phosphate group

AB cf. CA 64: 14469b; 65: 10646g. Condensation of 0.1 millimole acylated ribomononucleotide (I) containing a free 3'-phosphate group and 0.3 millimole Et4N salt of a nucleoside 2',3'-cyclophosphate (II) with a free 5'-OH group in 1.5 ml. C5H5N and 0.5 g. dicyclohexylcarbodiimide for 3 days at room temperature and shaking in the dark, enzymic hydrolysis with ribonuclease at pH 7.0 for 3 hrs. at 37°, and removal of protecting groups with MeOH-NH3 during 0.5-12 hrs. gave the dinucleotide (III), which was purified on DEAE-cellulose. The following III were obtained in 20-40%

yields: adenylyl-3(' → 5')-uridine 3'-phosphate, -cytidine 3'-phosphate and -guanosine 3'-phosphate; uridylyl-(3' → 5')-uridine 3'-phosphate, -cytidine 3'-phosphate and -guanosine 3'-phosphate; cytidylyl-(3' → 5')-uridine 3'-phosphate, -guanosine 3'-phosphate and -cytidine 3'-phosphate. N6,02',05'-Tribenzoyladenine 3'-phosphate, 80-5% yield by conversion of 3'-adenylic acid to the Et4N salt (on an ion-exchange resin in the Et4N form), treatment with BzCl-C5H5N 1 hr. at room temperature, and precipitation of the I from C5H5N with Et2O.

Other I, prepared in the usual way, were N6-benzoyl-02',05'-diacetyluridine 3'-phosphate, 02',05'-diacetyluridine 3'-phosphate, and N6,02',05' - triacetylcytidine 3' - phosphate. The cyclization method of Smrt and Sorm (CA 57: 3550i) was used to prepare II. N6-Benzoylcytidine 2',3'-cyclophosphate was prepared in 68.5% yield from reaction of 2 millimoles NH4 cytidine 2',3'-cyclophosphate and 20 millimoles N-benzoylimidazole in 200 ml. HCO-NMe2 for 5 days at room temperature, concentration at high vacuum, and precipitation of the product from C5H5N into Et2O, then conversion as above into the Et4N salt.

AN 1967:491009 HCAPLUS <<LOGINID::20100301>>

DN 67:91009

OREF 67:17155a,17158a

TI Synthesis of oligo- and polynucleotides. VIII. Synthesis of dinucleotides from the ribose series with a terminal 3'-phosphate group

AU Rhaese, Hans J.; Siehr, Wolfgang; Cramer, Friedrich

CS Max-Planck-Inst. Exptl. Med., Goettingen, Fed. Rep. Ger.

SO Justus Liebigs Annalen der Chemie (1967), 703, 215-24

CODEN: JLACBF; ISSN: 0075-4617

DT Journal

LA German

L3 ANSWER 32 OF 35 HCAPLUS COPYRIGHT 2010 ACS on STN

TI Aminoacyl derivatives of nucleosides, nucleotides, and polynucleotides.

II. Synthesis of the 2'(3')-O-glycyl derivatives of uridylyl-(3' → 5')-uridine, cytidylyl-(3' → 5')-adenosine, and uridylyl-(3' → 5')-adenosine using the corresponding D-ribonucleoside 2',3'-cyclic orthoesters

AB cf. CA 65: 15487d. The pyridinium salt of 2',5'-di-O-acetyluridine 3'-phosphate (Ia) (0.245 g.) and 0.46 g. uridine 2',3'-(cyclic orthoester) was repeatedly evaporated with pyridine, the residue kept with 2 g. N,N'-dicyclohexylcarbodiimide 3.5 days, and evaporated. The product was kept 5 hrs. with NH3-saturated MeOH, evaporated, and chromatographed on

DEAE-cellulose in

50% MeOH-0.2M NEt3 and on Whatman 3 MM paper to give 24.5% uridylyl-(3' → 5')-2',3'-O-(N-benzyloxycarbonylaminomethyl)ethoxymethyladenosine (I) and uridine 2',3'-(cyclic phosphate) resulting as by-product. Hydrolysis of I in 20% AcOH 2.5 hrs. gave uridylyl-(3' → 5')-2'(3')-(N-benzyloxycarbonyl)glycyluridine, yielding on hydrogenolysis over Pd/BaSO4 in 80% AcOH 97% uridylyl-(3' → 5')-2'(3')-O-glycyluridine. Analogously obtained were 20.7% cytidylyl-(3' → 5')-2',3'-O-(N-benzyloxycarbonyl)aminomethylethoxymethyladenosine (II) from 0.134 g. N,2',5'-O-triacetylcytidine 3'-phosphate and 0.5 millimole N-dimethylaminomethylene-2',3'-O-(N-benzyloxycarbonyl)aminomethylethoxymethyladenosine (III) in addition to the by-product cytidine 2',3'-cyclic phosphate, and 17.5% 2'-O-(1-ethoxyethyl)cytidylyl-(3' → 5')-2',3'-O-(N-benzyloxycarbonyl)aminomethylethoxymethyladenosine (IV) from 0.5 millimole III and 0.28 millimole N,5'-O-diacetyl-2'-O-(1-ethoxyethyl)cytidine 3'-phosphate. IV gave on hydrolysis with 80% HCO2H at 0° 64% cytidylyl-(3' →

5')-2'(3')-O-(N-benzyloxycarbonyl)glycyladenosine which yielded on hydrogenolysis 66% cytidylyl-(3' → 5')-2'(3')-O-glycyladenosine. Similarly as above, 0.12 g. Ia and 0.27 g. III afforded 24% uridylyl-(3' → 5')-2', (3')-O-(N-benzyloxycarbonyl)aminomethylethoxymethyleneadenosine which was hydrolyzed to uridylyl-(3' → 5')-2'(3')-(N-benzyloxycarbonyl)glycyladenosine and this, in turn, hydrogenated to uridylyl-(3' → 5')-2'(3')-O-glycyladenosine. All compds. were characterized by paper chromatog. and electrophoresis, degradation with pancreatic ribonuclease, and uv spectra.

AN 1967:411694 HCAPLUS <<LOGINID::20100301>>

DN 67:11694

OREF 67:2247a,2250a

TI Aminoacyl derivatives of nucleosides, nucleotides, and polynucleotides.

II. Synthesis of the 2'(3')-O-glycyl derivatives of uridylyl-(3' → 5')-uridyne, cytidylyl-(3' → 5')-adenosine, and uridylyl-(3' → 5')-adenosine using the corresponding D-ribonucleoside 2',3'-cyclic orthoesters

AU Chladek, Stanislav; Zemlicka, Jiri

CS Ceskoslov. Akad. Ved, Prague, Czech.

SO Collection of Czechoslovak Chemical Communications (1967), 32(5), 1776-89

CODEN: CCCCAK; ISSN: 0010-0765

DT Journal

LA English

L3 ANSWER 33 OF 35 HCAPLUS COPYRIGHT 2010 ACS on STN

TI N4,O3',O5'-Triacetyl-2,2'-anhydrocytidine, a postulated reactive intermediate in a convenient synthesis of 1-β-D-arabinofuranosylcytosine

GI For diagram(s), see printed CA Issue.

AB cf. CA 61, 10763h. The effect of N4-acylation in the case of formation and resultant properties of 2,2'-anhydrocytidine derivs. was investigated. An equilibrium mixture of N4,O3',O5'-triacetylcytidine (I, R = H) (II) and its N4,O2',O5'-isomer in 3:2 ratio was prepared in 64% yield by the orthoester exchange method. The mixture was treated with a slight excess of p-MeC6H4SO2Cl in anhydrous C5H5N and the concentrated solution taken up in an equal

volume of CH2Cl2, extracted with H2O in 10 min., and the extract kept at 20° to give N4,O3',O5'-triacetyl-β-D-arabinofuranosylcytosine (III, R = Ac) (IV). IV treated 24 hrs. at 20° gave 90% III (R = H) (V), m. 212-16°, [α]_{20D} 152°. The tribenzoyl derivative (VI) in 9:1 C5H5N-H2O at 20° gave crystalline 1-β-D-arabinofuranosyl-N4O3',O5'-tribenzoylcytosine (VII), m. 198-200°, with 75% conversion after 11 days without indication of an intermediate. If the reaction proceeds via an anhydronucleoside its formation must be the rate-determining step and be extremely susceptible to base-catalyzed hydrolysis. It appears that the MeSO2 ion undergoes displacement much less readily than the p-MeC6H4SO2 ion in this reaction. IV has led to a very convenient synthesis of V which has selective antiviral activity. Both IV and VII have the correct orientation for preparation of the 2'-protected derivative of 1-β-D-arabinofuranosylcytosine, required in the oligonucleotide synthesis of Griffin and R. (CA 62, 2818a).

AN 1966:482561 HCAPLUS <<LOGINID::20100301>>

DN 65:82561

OREF 65:15484f-h,15485a

TI N4,O3',O5'-Triacetyl-2,2'-anhydrocytidine, a postulated reactive intermediate in a convenient synthesis of 1-β-D-arabinofuranosylcytosine

AU Fromageot, H. P. N.; Reese, C. B.

CS Univ. Cambridge, UK
SO Tetrahedron Letters (1966), (29), 3499-505
CODEN: TELEAY; ISSN: 0040-4039
DT Journal
LA English

L3 ANSWER 34 OF 35 HCAPLUS COPYRIGHT 2010 ACS on STN

TI Antimetabolites of uridine with two structural alterations

AB cf. C.A. 46, 5136b; 47, 9976f. Nucleosides substituted in both the 3- and 5-positions were prepared and their biol. activity compared with that of the corresponding derivs. with a single structural alteration. In the case of Neurospora, the 3,5-disubstituted nucleosides are less effective as antimetabolites than are the monosubstituted compds. Uridine (7.0 g.) in 100 cc. Ac2O let stand overnight at room temperature, the solution concentrated during 2

days at 4 mm. and 20-5° to a sirup, the triacetyluridine (I) (yield 90%) (19 g.) in a min. of hot (CH2Cl)2 cooled to 0°, treated with 5.3 g. CH2N2 in Et2O, let stand overnight at room temperature, concentrated to dryness in vacuo at room temperature, 50 cc. absolute MeOH added, the

solution taken to dryness in vacuo, the residue refluxed 10 min. in 5% HCl-MeOH, the solution concentrated to dryness in vacuo at room temperature, the residue

in a min. of cold water passed through 5 g. Amberlite IRA-400, the effluent decolorized with C, lyophilized, and the residue dissolved in 1:1 MeOH-EtOAc and treated with Et2O until opalescent, yielded 9.8 g. 3-methyluridine (II), m. 122-3°; at times a form m. 108-10° was obtained. The 2 forms could not be interconverted. II (2.6 g.) in water treated with Br water at 5° to a permanent color, the solution aerated, lyophilized, and the product refluxed 2 hrs. with absolute EtOH, and concentrated to a sirup on the water bath gave 3.10 g. 3-methyl-5-bromouridine (III), m. 164-4.5°. II (750 mg.) in 45 cc. AcOH treated with 0.32 g. Cl in cold CCl4 at room temperature, the solution let stand overnight, the solvent removed, the residue in 44 cc. MeOH containing 0.44 g. HCl let stand 2-5 days, and the acid removed by repeated addition and evaporation of MeOH

gave 300 mg. 3-methyl-5-chlorouridine, m. 158-9°. III (1 g.) in 30 cc. absolute EtOH charged with 8 cc. NH3 (Dry Ice-Me2CO bath) in a stainless-steel tube, the tube let come to room temperature, heated 6 days at 55°, the NH3 and EtOH evaporated in vacuo at room temperature, the product in a min. of water

passed through 5 g. IRA-120, the column washed with 3 l. water, eluted with 500 cc. 4N NH4OH, the NH3 removed in vacuo, the solution lyophilized, and the product recrystd. from absolute EtOH gave 400 mg.

3-methyl-5-aminouridine, m. 166-7°.

AN 1954:56477 HCAPLUS <<LOGINID::20100301>>

DN 48:56477

OREF 48:9922c-g

TI Antimetabolites of uridine with two structural alterations

AU Visser, Donald W.; Barron, Gerald; Beltz, Richard

CS Univ. of S. California, Los Angeles

SO Journal of the American Chemical Society (1953), 75, 2017-19

CODEN: JACSAT; ISSN: 0002-7863

DT Journal

LA Unavailable

L3 ANSWER 35 OF 35 HCAPLUS COPYRIGHT 2010 ACS on STN

TI Ring structure of uridine

AB The acetylation of 10 g. uridine (I) with 130 cc. Ac2O containing 0.25 g. fused NaOAc and the isolation of the product (C. A. 26, 5571) gave 15 g. triacetyluridine, C15H18O9N2, as a pale yellow, flaky, glass-like

solid. This was hydrogenated in EtOAc in the presence of PtO₂ at 45 lb. per sq. in pressure to triacetyldihydrouridine, which was methylated as previously described for the methylation of adenosine (C. A. 26, 2433). The simultaneous hydrolysis and oxidation of methylated dihydrouridine by the addition of Br to a solution in 3% aqueous HBr gave a mixture of trimethylribonolactone and its Me ester. Hydrolysis with 4% HCl at 85° for 2.5 hrs. yielded trimethyl-γ-ribonolactone, b_{0.05} 90-5°, which on oxidation with concentrated HNO₃ gave crystalline inactive dimethoxysuccinic acid; Me ester, m. 68°. It follows that I is a ribofuranoside.

AN 1933:50703 HCAPLUS <<LOGINID::20100301>>
DN 27:50703
OREF 27:4528e-g
TI Ring structure of uridine
AU Levene, P. A.; Tipson, R. Stuart
SO Journal of Biological Chemistry (1933), 101, 529-34
CODEN: JBCHA3; ISSN: 0021-9258
DT Journal
LA Unavailable

=> d his

(FILE 'HOME' ENTERED AT 13:41:33 ON 01 MAR 2010)

FILE 'REGISTRY' ENTERED AT 13:41:40 ON 01 MAR 2010

EXP TRIACETYLRIDINE/CN
EXP TRIACETYL URIDINE/CN
EXP 2,3,5-TRIACETYL URIDINE/CN
EXP ETHOXCARBONYLRIDINE\
EXP ETHOXCARBONYLRIDINE/CN
EXP PERACETYLRIDINE/CN
EXP PERACETYL URIDINE/CN

FILE 'HCAPLUS' ENTERED AT 13:43:26 ON 01 MAR 2010

L1 56 S TRIACETYLRIDINE OR (TRIACETYL URIDINE) OR TRIACETYLCYTIDINE
L2 56 S TRIACETYLRIDINE OR (TRIACETYL URIDINE) OR TRIACETYLCYTIDINE
L3 35 S L2 AND (PY<1993 OR AY<1993 OR PRY<1993)

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COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	117.23	118.92
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-29.75	-29.75

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FULL ESTIMATED COST	120.14	121.83

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CA SUBSCRIBER PRICE	-29.75	-29.75

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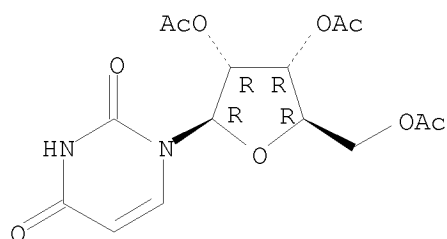
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L5 1 5040-18-6/RN

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L4 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2010 ACS on STN
RN 4105-38-8 REGISTRY

ED Entered STN: 16 Nov 1984
 CN Uridine, 2',3',5'-triacetate (CA INDEX NAME)
 OTHER NAMES:
 CN 2',3',5'-Tri-O-acetyluridine
 CN 2',3',5'-Triacetyluridine
 CN PN 401
 CN RG 2133
 CN Tri-O-acetyl uridine
 CN Uridine triacetate
 FS STEREOSEARCH
 DR 293738-13-3
 MF C15 H18 N2 O9
 CI COM
 LC STN Files: BEILSTEIN*, BIOSIS, CA, CAPLUS, CASREACT, CHEMCATS,
 CHEMINFORMRX, CHEMLIST, CSCHEM, IMSRESEARCH, RTECS*, TOXCENTER, USPAT2,
 USPATFULL, USPATOLD
 (*File contains numerically searchable property data)
 Other Sources: EINECS**
 (**Enter CHEMLIST File for up-to-date regulatory information)

Absolute stereochemistry.



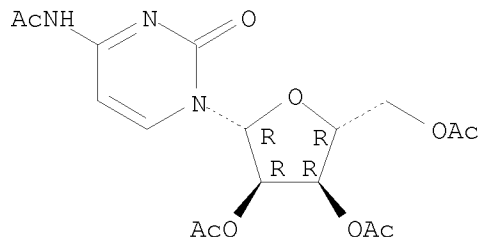
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

251 REFERENCES IN FILE CA (1907 TO DATE)
 6 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 251 REFERENCES IN FILE CAPLUS (1907 TO DATE)

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L5 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2010 ACS on STN
 RN 5040-18-6 REGISTRY
 ED Entered STN: 16 Nov 1984
 CN Cytidine, N-acetyl-, 2',3',5'-triacetate (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN Acetamide, N-(1,2-dihydro-2-oxo-1-β-D-ribofuranosyl-4-pyrimidinyl)-,
 triacetate (ester) (8CI)
 OTHER NAMES:
 CN Cytidine tetraacetate
 CN N-Acetylcytidine triacetate
 CN N4,2',3',5'-Tetraacetylcytidine
 FS STEREOSEARCH
 MF C17 H21 N3 O9
 LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, CHEMINFORMRX, SPECINFO,
 TOXCENTER, USPATFULL
 (*File contains numerically searchable property data)

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

52 REFERENCES IN FILE CA (1907 TO DATE)
52 REFERENCES IN FILE CAPLUS (1907 TO DATE)

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FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
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REVISED CLASS FIELDS (/NCL) LAST RELOADED: Dec 2009
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Dec 2009

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      2636069 AY<1993
      2076698 PRY<1993
L8      9 L7 AND (PY<1993 OR AY<1993 OR PRY<1993)
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=> d 18 1-9 ti abs bib
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L8 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2010 ACS on STN
TI Treatment of chemotherapeutic agent and antiviral agent toxicity with
acylated pyrimidine nucleosides
AB Comps., compns., and methods are disclosed for treatment and prevention
of toxicity due to chemotherapeutic agents and antiviral agents.
Disclosed are acylated derivs. of nonmethylated pyrimidine nucleosides.
These compds. are capable of attenuating damage to the hematopoietic
system in animals receiving antiviral or antineoplastic chemotherapy.
AN 1999:670113 HCAPLUS <<LOGINID::20100301>>
DN 131:281604
TI Treatment of chemotherapeutic agent and antiviral agent toxicity with
acylated pyrimidine nucleosides
IN Von Borstel, Reid; Bamat, Michael K.
PA Pro-Neuron, Inc., USA
SO U.S., 31 pp., Cont.-in-part U. S. Ser. 176,485.
CODEN: USXXAM
DT Patent
LA English
FAN.CNT 13
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PI	US 5968914	A	19991019	US 1995-472210	19950607 <--
	EP 712629	A1	19960522	EP 1995-203050	19881027 <--
	EP 712629	B1	20030618		
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	JP 3474073	B2	20031208		
	JP 2001192335	A	20010717	JP 2000-379524	19881027 <--
	CA 2111571	A1	19930121	CA 1992-2111571	19920625 <--
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	ES 2160579	T3	20011116	ES 1992-914215	19920625 <--
	ZA 9204975	A	19930428	ZA 1992-4975	19920703 <--
	IN 175688	A1	19950812	IN 1992-CA473	19920706 <--
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IN 177670	A1	19970215	IN 1994-CA701	19940902 <--
US 5770582	A	19980623	US 1995-419767	19950410 <--
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US 6258795	B1	20010710	US 1995-466145	19950606 <--
US 6316426	B1	20011113	US 1995-466144	19950606 <--
US 6232298	B1	20010515	US 1995-479519	19950607 <--
US 6274563	B1	20010814	US 1995-479349	19950607 <--
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CA 2223640	A1	19961219	CA 1996-2223640	19960606
WO 9640165	A1	19961219	WO 1996-US10067	19960606
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RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN				
AU 9661114	A	19961230	AU 1996-61114	19960606
AU 724805	B2	20000928		
EP 831849	A1	19980401	EP 1996-918461	19960606
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CN 1192149	A	19980902	CN 1996-195929	19960606
JP 10511689	T	19981110	JP 1997-502184	19960606
JP 2003201240	A	20030718	JP 2003-721	19960606
EP 1491201	A1	20041229	EP 2004-23557	19960606
EP 1491201	B1	20060322		
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AT 320813	T	20060415	AT 2004-23557	19960606
ES 2257721	T3	20060801	ES 2004-23557	19960606
PT 1491201	E	20060831	PT 2004-23557	19960606
HK 1072897	A1	20060512	HK 2005-105421	19981003
US 20010025032	A1	20010927	US 1999-249790	19990216 <--
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US 6743782	B1	20040601	US 2000-494242	20000131 <--
AU 2002320811	A1	20030403	AU 2002-320811	20021223
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US 20040192635	A1	20040930	US 2004-824501	20040415 <--
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AU 2005232288	A1	20051201	AU 2005-232288	20051110
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PRAI US 1987-115923	B2	19871028	<--	
US 1987-115929	B2	19871028	<--	
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JP 2000-379524	A3	19881027	<--
US 1989-341925	B1	19890421	<--
US 1990-533933	B1	19900605	<--
US 1990-438493	B2	19900626	<--
US 1991-653882	B2	19910208	<--
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CA 1992-2111571	A3	19920625	<--
IN 1992-CA473	A1	19920706	<--
US 1992-911379	A3	19920713	<--
US 1992-925931	B2	19920807	<--
US 1992-958598	B3	19921007	<--
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US 1992-997657	A3	19921230	<--
US 1993-96407	B1	19930726	
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US 1994-289214	A3	19940812	
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US 1995-463740	A1	19950605	
US 1995-472210	A	19950607	
AU 1995-29150	A3	19950630	
EP 1996-918461	A3	19960606	
JP 1997-502184	A3	19960606	
JP 2003-721	A3	19960606	
WO 1996-US10067	W	19960606	
HK 1998-111095	A3	19981003	
AU 1999-52624	A3	19991001	
US 2000-494242	A3	20000131	
AU 2002-320811	A3	20021223	
JP 2005-380457	A3	20051228	

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

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RE.CNT 30 THERE ARE 30 CITED REFERENCES AVAILABLE FOR THIS RECORD

ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 2 OF 9 HCAPLUS COPYRIGHT 2010 ACS on STN

TI Compositions of chemotherapeutic agent or antiviral agent with acylated pyrimidine nucleosides

AB The subject invention discloses compds., compns. and methods for treatment and prevention of toxicity due to chemotherapeutic agents and antiviral agents. Disclosed are acylated derivs. of non-methylated pyrimidine nucleosides. These compds. are capable of attenuating damage to the hematopoietic system in animals receiving antiviral or antineoplastic chemotherapy. Thus, biol activity of 5-fluorouracil is reported.

AN 1998:236253 HCAPLUS <<LOGINID::20100301>>

DN 128:266247

OREF 128:52559a,52562a

TI Compositions of chemotherapeutic agent or antiviral agent with acylated pyrimidine nucleosides

IN Von Borstel, Reid W.; Bamat, Michael K.

PA Pro-Neuron, Inc., USA

SO U.S., 26 pp., Cont.-in-part of U.S. Ser. No. 61,381, abandoned.

CODEN: USXXAM

DT Patent

LA English

FAN.CNT 13

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	US 5736531	A	19980407	US 1993-176485	19931230 <--
	EP 712629	A1	19960522	EP 1995-203050	19881027 <--
	EP 712629	B1	20030618		
	R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
	JP 10001436	A	19980106	JP 1997-36734	19881027 <--
	JP 3474073	B2	20031208		
	JP 2001192335	A	20010717	JP 2000-379524	19881027 <--
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	CA 2504078	A1	19930121	CA 1992-2504078	19920625 <--
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	ZA 9204975	A	19930428	ZA 1992-4975	19920703 <--
	IN 175688	A1	19950812	IN 1992-CA473	19920706 <--
	US 5246708	A	19930921	US 1992-911379	19920713 <--
	US 5470838	A	19951128	US 1992-997657	19921230 <--
	US 5583117	A	19961210	US 1993-140475	19931025 <--
	US 6020320	A	20000201	US 1993-153163	19931117 <--
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	US 5770582	A	19980623	US 1995-419767	19950410 <--
	US 5691320	A	19971125	US 1995-465454	19950605 <--
	US 6054441	A	20000425	US 1995-463790	19950605 <--
	US 6060459	A	20000509	US 1995-465016	19950605 <--
	US 7307166	B1	20071211	US 1995-463771	19950605 <--
	US 6258795	B1	20010710	US 1995-466145	19950606 <--
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	US 5968914	A	19991019	US 1995-472210	19950607 <--
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	US 6919320	B1	20050719	US 1995-473331	19950607 <--
	US 7166581	B1	20070123	US 1995-473330	19950607 <--
	US 20010025032	A1	20010927	US 1999-249790	19990216 <--
	US 6344447	B2	20020205		
	AU 9952624	A	19991202	AU 1999-52624	19991001
	US 6743782	B1	20040601	US 2000-494242	20000131 <--
	AU 2002320811	A1	20030403	AU 2002-320811	20021223
	US 20040033981	A1	20040219	US 2003-601863	20030624 <--
	US 20040192635	A1	20040930	US 2004-824501	20040415 <--
	US 20040220134	A1	20041104	US 2004-855835	20040528 <--
	AU 2005232288	A1	20051201	AU 2005-232288	20051110
	JP 2006137772	A	20060601	JP 2005-380457	20051228 <--
	JP 2008019268	A	20080131	JP 2007-233452	20070907 <--
PRAI	US 1987-115923	B2	19871028	<--	
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	US 1989-438493	B2	19890627	<--	
	US 1990-487984	B2	19900205	<--	
	US 1991-724340	B2	19910705	<--	
	US 1992-903107	B2	19920625	<--	
	US 1993-61381	B2	19930514		
	US 1988-186031	B2	19880425	<--	
	EP 1988-910239	A3	19881027	<--	
	JP 1988-509176	A3	19881027	<--	
	JP 1994-303877	A3	19881027	<--	
	JP 2000-379524	A3	19881027	<--	
	US 1989-341925	B1	19890421	<--	
	US 1990-533933	B1	19900605	<--	
	US 1990-438493	B2	19900626	<--	
	US 1991-653882	B2	19910208	<--	

US 1991-737913	B3	19910729	<--
CA 1992-2111571	A3	19920625	<--
IN 1992-CA473	A1	19920706	<--
US 1992-911379	A3	19920713	<--
US 1992-925931	B2	19920807	<--
US 1992-958598	B3	19921007	<--
US 1992-987730	B2	19921208	<--
US 1992-997657	A3	19921230	<--
US 1993-96407	B1	19930726	
US 1993-98884	B1	19930729	
US 1993-153163	A1	19931117	
US 1993-158799	B2	19931201	
US 1993-176485	A2	19931230	
US 1994-266897	B3	19940701	
US 1994-289214	A3	19940812	
US 1995-419767	A3	19950410	
US 1995-463740	A1	19950605	
US 1995-472210	A1	19950607	
AU 1995-29150	A3	19950630	
AU 1999-52624	A3	19991001	
US 2000-494242	A3	20000131	
AU 2002-320811	A3	20021223	
JP 2005-380457	A3	20051228	

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OS MARPAT 128:266247

OSC.G 13 THERE ARE 13 CAPLUS RECORDS THAT CITE THIS RECORD (13 CITINGS)

RE.CNT 34 THERE ARE 34 CITED REFERENCES AVAILABLE FOR THIS RECORD

ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 3 OF 9 HCAPLUS COPYRIGHT 2010 ACS on STN

TI Methods of reducing toxicity of chemotherapeutic and antiviral agents with acylated non-methylated pyrimidine nucleosides

AB Compsds., compns. and methods are disclosed for the treatment and prevention of toxicity due to chemotherapeutic agents and antiviral agents. Disclosed are acylated derivs. of non-methylated pyrimidine nucleosides. These compds. are capable of attenuating damage to the hematopoietic system in animals receiving antiviral or antineoplastic chemotherapy. Oral administration of triacetyluridine ameliorated the hematol. toxicity of 5-fluorouracil. Triacetyluridine and uridine increased the therapeutic index of 5-fluorouracil in tumor-bearing mice. Amelioration of the adverse effects of e.g. AZT is also described.

AN 1997:141015 HCAPLUS <<LOGINID::20100301>>

DN 126:139905

OREF 126:26891a

TI Methods of reducing toxicity of chemotherapeutic and antiviral agents with acylated non-methylated pyrimidine nucleosides

IN Vonborstel, Reid W.; Bamat, Michael K.

PA Pro-Neuron, Inc., USA

SO PCT Int. Appl., 142 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 13

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	WO 9640165	A1	19961219	WO 1996-US10067	19960606
	W: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG				
	RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR,				

IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN

IN 177670	A1	19970215	IN 1994-CA701	19940902 <--
US 5968914	A	19991019	US 1995-472210	19950607 <--
AU 9661114	A	19961230	AU 1996-61114	19960606
AU 724805	B2	20000928		
EP 831849	A1	19980401	EP 1996-918461	19960606

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI

JP 10511689	T	19981110	JP 1997-502184	19960606
AU 9952624	A	19991202	AU 1999-52624	19991001
AU 2002320811	A1	20030403	AU 2002-320811	20021223
AU 2005232288	A1	20051201	AU 2005-232288	20051110

PRAI US 1995-472210 A 19950607

US 1987-115923	B2	19871028	<--
US 1987-115929	B2	19871028	<--
US 1989-438493	B2	19890627	<--
US 1990-487984	B2	19900205	<--
US 1991-724340	B2	19910705	<--
US 1992-903107	B2	19920625	<--
IN 1992-CA473	A1	19920706	<--
US 1993-61381	B2	19930514	
US 1993-176485	A2	19931230	
AU 1995-29150	A3	19950630	
WO 1996-US10067	W	19960606	
AU 1999-52624	A3	19991001	
AU 2002-320811	A3	20021223	

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OSC.G 4 THERE ARE 4 CAPLUS RECORDS THAT CITE THIS RECORD (4 CITINGS)

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD

ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 4 OF 9 HCAPLUS COPYRIGHT 2010 ACS on STN

TI Pyrimidine nucleotide precursors for treatment of systemic inflammation and inflammatory hepatitis

AB Pyrimidine nucleotide precursors, including acyl derivs. of cytidine, uridine, and orotate, and uridine phosphorylase inhibitors, and their use in enhancing resistance to sepsis or systemic inflammation, are disclosed. Triacetyluridine improved survival of mice treated with a LD of Salmonella typhimurium endotoxin, reduced endotoxin-caused tissue damage, reduced mortality in viral hepatitis in mice, and improved recovery from ethanol intoxication.

AN 1996:205056 HCAPLUS <<LOGINID::20100301>>

DN 124:250921

OREF 124:46221a,46224a

TI Pyrimidine nucleotide precursors for treatment of systemic inflammation and inflammatory hepatitis

IN Von Borstel, Reid W.; Bamat, Michael K.; Hiltbrand, Bradley M.

PA Pro-Neuron, Inc., USA

SO PCT Int. Appl., 95 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 13

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	WO 9601115	A1	19960118	WO 1995-US8259	19950630
	W: AU, CA, CN, JP, KR, MX				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	IN 177670	A1	19970215	IN 1994-CA701	19940902 <--
	US 5691320	A	19971125	US 1995-465454	19950605 <--
	US 6232298	B1	20010515	US 1995-479519	19950607 <--

CA	2193967	A1	19960118	CA 1995-2193967	19950630
CA	2193967	C	20070911		
AU	9529150	A	19960125	AU 1995-29150	19950630
AU	712679	B2	19991111		
EP	768883	A1	19970423	EP 1995-924764	19950630
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE					
CN	1156409	A	19970806	CN 1995-194806	19950630
JP	10505578	T	19980602	JP 1996-503935	19950630
JP	4408450	B2	20100203		
CN	101066276	A	20071107	CN 2006-10105555	19950630
AU	9952624	A	19991202	AU 1999-52624	19991001
AU	2002320811	A1	20030403	AU 2002-320811	20021223
US	20030212036	A1	20031113	US 2003-421831	20030424
US	20040033981	A1	20040219	US 2003-601863	20030624 <--
US	20040220134	A1	20041104	US 2004-855835	20040528 <--
AU	2005232281	A1	20051201	AU 2005-232281	20051110
AU	2005232286	A1	20051201	AU 2005-232286	20051110
AU	2005232288	A1	20051201	AU 2005-232288	20051110
JP	2008007525	A	20080117	JP 2007-250303	20070926
PRAI	US 1994-266897	A	19940701		
	US 1987-115929	B2	19871028	<--	
	US 1989-438493	B2	19890627	<--	
	US 1990-438493	B2	19900626	<--	
	IN 1992-CA473	A1	19920706	<--	
	US 1992-987730	B2	19921208	<--	
	US 1993-158799	B2	19931201		
	US 1995-463740	A1	19950605		
	US 1995-479519	A1	19950607		
	AU 1995-29150	A3	19950630		
	CN 1995-194806	A3	19950630		
	JP 1996-503935	A3	19950630		
	WO 1995-US8259	W	19950630		
	AU 1999-52624	A3	19991001		
	US 2000-702876	A3	20001101		
	AU 2002-320811	A3	20021223		
OSC.G	8	THERE ARE 8 CAPLUS RECORDS THAT CITE THIS RECORD (10 CITINGS)			
RE.CNT	2	THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD			
ALL CITATIONS AVAILABLE IN THE RE FORMAT					

L8 ANSWER 5 OF 9 HCAPLUS COPYRIGHT 2010 ACS on STN

TI Acylated pyrimidine nucleosides for treatment of toxicity from
chemotherapeutic and antiviral agents

AB The subject invention discloses compds., compns. and methods for treatment
and prevention of toxicity due to chemotherapeutic agents and antiviral
agents. Disclosed are acylated derivs. of non-methylated pyrimidine
nucleosides. These compds. are capable of attenuating damage to the
hematopoietic system in animals receiving antiviral or antineoplastic
chemotherapy. Oral administration of triacetyluridine ameliorated the
hematol. toxicity of 5-fluorouracil. Effects of other derivs. are also
presented. Synthesis of ethoxycarbonyluridine is included.

AN 1995:756200 HCAPLUS <<LOGINID::20100301>>

DN 123:160865

OREF 123:28387a

TI Acylated pyrimidine nucleosides for treatment of toxicity from
chemotherapeutic and antiviral agents

IN Von Borstel, Reid Warren; Bamat, Michael Kevin

PA Pro-Neuron, Inc., USA

SO PCT Int. Appl., 143 pp.
CODEN: PIXXD2

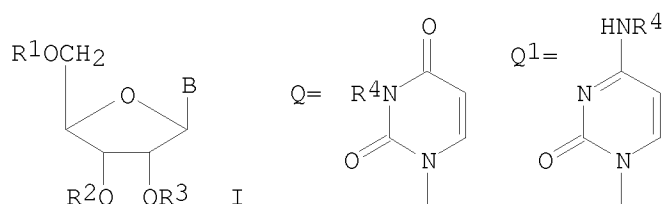
DT Patent

LA English

FAN.CNT 13

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9426761	A1	19941124	WO 1993-US12689	19931230
	W: AU, CA, JP, KR				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	AU 9460812	A	19941212	AU 1994-60812	19931230
	IN 177670	A1	19970215	IN 1994-CA701	19940902 <--
	AU 9952624	A	19991202	AU 1999-52624	19991001
	AU 2002320811	A1	20030403	AU 2002-320811	20021223
	AU 2005232288	A1	20051201	AU 2005-232288	20051110
PRAI	US 1993-61381	A	19930514		
	IN 1992-CA473	A1	19920706	<--	
	WO 1993-US12689	W	19931230		
	AU 1995-29150	A3	19950630		
	AU 1999-52624	A3	19991001		
	AU 2002-320811	A3	20021223		
OS	MARPAT 123:160865				
OSC.G	4	THERE ARE 4 CAPLUS RECORDS THAT CITE THIS RECORD (4 CITINGS)			
RE.CNT	6	THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD			
		ALL CITATIONS AVAILABLE IN THE RE FORMAT			

L8 ANSWER 6 OF 9 HCAPLUS COPYRIGHT 2010 ACS on STN
 TI Preparation and therapeutic used of acylated uridine and cytidine.
 GI



AB Acylated pyrimidine nucleosides [I; B = Q where R4 = H; R1, R2, R3 = acyl residue of C5-22 unbranched fatty acid, amino acids (e.g. glycine, L-alanine, and L-lysine), C3-22 dicarboxylic acids, carboxylic acids (e.g. glycolic acid, pyruvic acid, and lactic acid)] (II) and I (B = Q; R1 - R3 = H, acyl radical of a metabolite; R4 = acyl radical of a metabolite] (III) and therapeutic uses of I (B = Q, Q1), e.g. for treating hepatopathies, diabetes, and heart disease, are described. In general, 2',3',5'-tri-O-acyluridines were prepared by heating a solution of 1 g uridine and 3.1 molar equivalent acid anhydride (e.g., Ac2O or butyric anhydride) in anhydrous pyridine at 80-85° for 2 h. A mixture of 2',3',5'-tri-O-acetylcytidine (IV) and -uridine(V) at 590 mg/kg of each administered to rats immediately after, and 1 and 20 h after aorta constriction and administration of isoproterenol (5 mg/kg) significantly restored myocardial performance.

AN 1989:595338 HCAPLUS <<LOGINID::20100301>>
 DN 111:195338
 OREF 111:32487a,32490a
 TI Preparation and therapeutic used of acylated uridine and cytidine.
 IN Von Borstel, Reid Warren; Bamat, Michael Kevin
 PA Pro-Neuron, Inc., USA
 SO PCT Int. Appl., 69 pp.

CODEN: PIXXD2

DT Patent
LA English
FAN.CNT 13

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 8903837	A1	19890505	WO 1988-US3823	19881027 <--
	W: AU, BR, DK, FI, JP, KR, NO, SU, US				
	RW: AT, BE, CH, DE, FR, GB, IT, LU, NL, SE				
	AU 8927899	A	19890523	AU 1989-27899	19881027 <--
	EP 339075	A1	19891102	EP 1988-909932	19881027 <--
	EP 339075	B1	19930818		
	R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
	JP 02500372	T	19900208	JP 1988-509176	19881027 <--
	JP 2894610	B2	19990524		
	CA 1321994	C	19930907	CA 1988-581429	19881027 <--
	AT 93236	T	19930915	AT 1988-909932	19881027 <--
	JP 10001436	A	19980106	JP 1997-36734	19881027 <--
	JP 3474073	B2	20031208		
	JP 2001192335	A	20010717	JP 2000-379524	19881027 <--
	IN 167680	A1	19901208	IN 1988-MA755	19881028 <--
	IL 88208	A	19961016	IL 1988-88208	19881028 <--
	ZA 8900232	A	19900627	ZA 1989-232	19890111 <--
	US 5583117	A	19961210	US 1993-140475	19931025 <--
	IN 177670	A1	19970215	IN 1994-CA701	19940902 <--
	JP 07228535	A	19950829	JP 1994-303877	19941207 <--
	US 5691320	A	19971125	US 1995-465454	19950605 <--
	US 6329350	B1	20011211	US 1995-464939	19950605 <--
	US 7173017	B1	20070206	US 1995-465455	19950605 <--
	US 6258795	B1	20010710	US 1995-466145	19950606 <--
	US 6316426	B1	20011113	US 1995-466144	19950606 <--
	US 6232298	B1	20010515	US 1995-479519	19950607 <--
	US 6274563	B1	20010814	US 1995-479349	19950607 <--
	AU 9952624	A	19991202	AU 1999-52624	19991001
	US 20020035086	A1	20020321	US 2001-964514	20010928 <--
	US 7105498	B2	20060912		
	AU 2002320811	A1	20030403	AU 2002-320811	20021223
	US 20040033981	A1	20040219	US 2003-601863	20030624 <--
	US 20040220134	A1	20041104	US 2004-855835	20040528 <--
	AU 2005232288	A1	20051201	AU 2005-232288	20051110
	JP 2006137772	A	20060601	JP 2005-380457	20051228 <--
	JP 2008019268	A	20080131	JP 2007-233452	20070907 <--
PRAI	US 1987-115929	A2	19871028	<--	
	EP 1988-909932	A	19881027	<--	
	JP 1988-509176	A3	19881027	<--	
	JP 1994-303877	A3	19881027	<--	
	JP 2000-379524	A3	19881027	<--	
	WO 1988-US3823	A	19881027	<--	
	US 1989-438493	B2	19890627	<--	
	US 1990-438493	B2	19900626	<--	
	US 1991-737913	B3	19910729	<--	
	IN 1992-CA473	A1	19920706	<--	
	US 1992-987730	B2	19921208	<--	
	US 1992-997657	A3	19921230	<--	
	US 1993-158799	B2	19931201		
	US 1994-266897	B3	19940701		
	US 1995-463740	A1	19950605		
	US 1995-466144	A3	19950606		
	AU 1995-29150	A3	19950630		
	AU 1999-52624	A3	19991001		
	AU 2002-320811	A3	20021223		

JP 2005-380457 A3 20051228
OS MARPAT 111:195338
OSC.G 14 THERE ARE 14 CAPLUS RECORDS THAT CITE THIS RECORD (15 CITINGS)
RE.CNT 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 7 OF 9 HCAPLUS COPYRIGHT 2010 ACS on STN
TI Platinum-dioxypyrimidine complexes
AB Complexes of 2,4-dioxypyrimidines with cis-diaquodiamineplatinum (II) were prepared and tested for antitumor, antibacterial and antiviral activity. The complexes appear to have good activity with low renal toxicity.
AN 1984:114992 HCAPLUS <<LOGINID::20100301>>
DN 100:114992
OREF 100:17361a,17364a
TI Platinum-dioxypyrimidine complexes
IN Rosenberg, Barnett; Van Camp, Loretta; Ficher, Robert G.; Kansy, Samir; Peresie, Henry J.; Davidson, James P.
PA Research Corp. , USA
SO U.S., 11 pp. Cont. of U.S. Ser. No. 803,269, abandoned.
CODEN: USXXAM
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	US 4419351	A	19831206	US 1978-970524	19781218 <--
PRAI	US 1974-508854	A1	19740924	<--	
	US 1977-803269	A1	19770603	<--	
OS	MARPAT 100:114992				
OSC.G	7				THERE ARE 7 CAPLUS RECORDS THAT CITE THIS RECORD (7 CITINGS)

L8 ANSWER 8 OF 9 HCAPLUS COPYRIGHT 2010 ACS on STN
TI Platinum-(2,4-dioxypyrimidine) complex
AB The title complexes were prepared by treating 2,4-dioxypyrimidine derivs. with cis-diaquadiamineplatinum(II) [20115-64-4] in a 2:1 to 1:1 mole ratio at 0-55°. The complexes showed antitumor, antiviral, and antibacterial activity, high water solubility, and low renal toxicity. For example, 0.01 mole cis-dichlorodiamineplatinum(II) [15663-27-1] was treated with 0.02 mole AgNO3 in the dark to give cis-diaquadiamineplatinum(II). This complex was then treated with uracil in a 1:1 mole ratio at pH 6-7 to give a complex which showed antitumor, antibacterial, and antiviral activity.
AN 1976:428777 HCAPLUS <<LOGINID::20100301>>
DN 85:28777
OREF 85:4645a,4648a
TI Platinum-(2,4-dioxypyrimidine) complex
IN Rosenberg, Barnett; Mansy, Samir A. L. A.; Van Camp, Loretta L.; Peresie, Henry J.; Fischer, Robert George; Davidson, James P.
PA Research Corp., USA
SO Ger. Offen., 51 pp.
CODEN: GWXXBX
DT Patent
LA German
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	DE 2445418	A1	19760401	DE 1974-2445418	19740923 <--
	JP 58028278	B	19830615	JP 1974-112688	19740930 <--
PRAI	DE 1974-2445418		19740923	<--	

L8 ANSWER 9 OF 9 HCAPLUS COPYRIGHT 2010 ACS on STN

TI Platinum-pyrimidine blues and related complexes. New class of potent
 antitumor agents
 AB Many of the complexes of diaquo species of cis-dichlorodiammineplatinum
 (II) and pyrimidines and substituted pyrimidines showed superior activity
 against the ascites Sarcoma 180 tumor in mice when compared to
 cis-dichlorodiammineplatinum [15663-27-1]. Activity was also shown
 against the Rauscher leukemia, Ehrlich ascites, and ADJ/PC6A tumors. The
 platinum-uracil complex caused only minor focal damage to the proximal
 convoluted tubules of the kidney. The methods for synthesis and
 characterization of some of the complexes are described, though the
 structure of the complexes are largely uncertain at this time.
 AN 1975:508573 HCAPLUS <<LOGINID::20100301>>
 DN 83:108573
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